

BRITISH BRYOLOGICAL SOCIETY

Interim Census Catalogue 2023

Including VC records compiled to the end of 2022

S.L. Pilkington and N.G. Hodgetts
with technical assistance from T.L. Blockeel

This interim *Census Catalogue* includes two complete years of VC additions and amendments published since the 2021 Census Catalogue. For more details see Hodgetts (2022, 2023) and Pilkington (2022, 2023). It also introduces the vice county distributions for 8 new or revised taxa:

Didymodon tophaceus subsp. sicculus (M.J.Cano, Ros, García-Zam. & J.Guerra) Jan Kučera [Didymodon sicculus M.J.Cano, Ros, Garcia-Zam. & J.Guerra]. See Martin (2021).

Bryoerythrophyllum campylocarpum (Müll.Hal.) H.A.Crum. See Ottley, Blockeel & Kučera (2021).

Leucobryum albidum (P.Beauv.) Lindb. See Ottley et al. (2023).

Leucobryum glaucum sensu Ottley et al. (Hedw.) Ångstr. See Ottley et al. (2023).

Leucobryum juniperoideum sensu Ottley et al. (Brid.) (Müll.Hal.) See Ottley et al. (2023).

Ptychostomum touwii Bijlsma, Kruijer & M. Stech. See Callaghan & Bijlsma (2021) and Bijlsma, Kruijer & Stech (2020).

Tortula bolanderi (Lesq.) M.Howe. See Blockeel & Ghullam (2023).

Tortula pallida (Lindb.) R.H.Zander. See Bosanquet (2021).

Symbols and conventions are as in the 2021 Census Catalogue (Blockeel et al. 2021).

References

- Bijlsma R.J., Kruijer J.D. & Stech M. (2020).** *Ptychostomum touwii*, a new bryophyte species distinguished from *Ptychostomum rubens* by iterative morpho-molecular analysis, and a note on *Bryum microerythrocarpum*. *Gorteria – Dutch Botanical Archives* 42: 56–65.
- Blockeel, T.L. & Ghullam, M.P. (2023).** *Tortula bolanderi* (Lesq.) M.Howe in Norfolk, a moss new to Britain. *Journal of Bryology* 45: 72–78.
- Blockeel, T.L., Hodgetts, N.G., Pilkington, S.L. & Pescott, O.L. (2021).** A census catalogue of British and Irish bryophytes 2021. British Bryological Society.
- Bosanquet, S.D.S. (2021).** *Tortula pallida* in England and Wales. *Field Bryology* 126: 22–26.
- Callaghan, D.A. & Bijlsma R.J. (2021).** *Ptychostomum touwii*, in L.T. Ellis et al., New national and regional bryophyte records, 67. *Journal of Bryology* 43: 306.
- Hodgetts, N.G. (2022).** The liverwort year – 2021. *Field Bryology* 127: 69-74.

- Hodgetts, N.G. (2023).** The liverwort year – 2022. *Field Bryology* 129: 67-74.
- Martin, P. (2021).** *Didymodon tophaceus* subsp. *sicculus* on Lundy Island, new to Britain. *Field Bryology* 126: 27–29.
- Ottley, T.W., Blockeel T.L. & Kučera J. (2021).** *Bryoerythrophyllum campylocarpum* (Müll.Hal.) H.A.Crum, a tropical and subtropical moss new to Ireland and Britain. *Journal of Bryology* 43: 313–320.
- Ottley, T.W., Kučera, J., Blockeel, T.L. & Langton, J. (2023).** A molecular and morphological study of *Leucobryum* in Britain and Europe: the presence of *L. albidum* (P.Beauv.) Lindb. confirmed. *Journal of Bryology* 45: 1-29.
- Pilkington, S.L. (2022).** The moss year – 2021. *Field Bryology* 127: 75-91.
- Pilkington, S.L. (2023).** The moss year – 2022. *Field Bryology* 129: 75-90.

HORNWORTS

- 1.1 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), 72-76, 80, 81, 85, 86, (87), 90, 91, 93-100, (101), 102, (103), 104, 105, (106), 107, 109-111. HI-4, (5), 6-9, 12, 13, 16, 20, 27-29, 31, 32, 34, 35, (38), 40. C.
- 1.2 Anthoceros agrestis** 1, 2, 4, 5, 8-10, (11), 12-14, (16), 17, (18, 19), 22, 23, (24), 26-28, (30, 32, 34), 35, 36, (37, 38), 39-41, 44, 46, 47, (48), 50-52, 54, 55, (56), 57-59, 63, (65, 68), 69, 72-77, 79-81, 83, 86, 88, 89, (90), 91, 98. H31, (35, 36), 38.
- 2.1 Phaeoceros laevis** 1-6, (8), 9, 10, 13, 14, (18), 35, (36, 43), 44-49, 52, 58, 59, (64), 70, 72, (73), 74, 75, 77, 81, 83, 88, (90), 98, 100-102, 104, (107), 110. HI-6, (8), 11, 13, (14), 16, 19-24, 26, 27, 29, 31, 32, 34-38, 40. C.
- 2.2 Phaeoceros carolinianus** 2, (13), 17, (18, 24), 35, 38, 40, 41, 44-46, 69, 72, 80, 81, (86, 87), 89, (99, 103).

LIVERWORTS

- 1.1 Haplomitrium hookeri** (1, 3, 11, 13), 42, 44, 45, 48, 49, 59, (61, 66), 68-70, (71), 74, 77-79, 83, 87-90, 92-98, 101, 103-110, 112. HI, 2, (3), 16, 20, (21), 27, 28, (30), 34, 35, 39.
- 2.1 Blasia pusilla** 1-4, (5-7), 8-14, (15, 16), 17-19, (20, 21), 22, (23, 25), 27, 28, (32, 33), 34-53, (54, 55), 56, 57, (58), 59-65, 67-112. HI, (2), 3-5, (6, 7), 8-10, (12), 16, 18, (19), 20, 21, 26-30, (31, 32), 33-36, (37, 38), 39, 40.
- 3.1 Sphaerocarpos michelii** 1, 3, 5, 6, 9-11, 14-22, (23, 24), 25-30, (32), 34, (36), 37, 54, 55, (61, 62). C.
- 3.2 Sphaerocarpos europaeus** 1, (9), 11-14, (16), 17, 19, 24-27, (34), 36, 37. C.
- 4.1 Lunularia cruciata** 1-98, (99), 100-112. HI-13, (14), 15-40. C.

5.1.a **Marchantia polymorpha subsp. polymorpha** 1-5, (6), 7, (11, 12), 13, 14, 16-19, (20, 22-24), 25-32, 34, 35, (36, 38, 39), 40-45, 47-53, 56, 57, (58), 59-70, 72, 73, (74), 75-86, (87, 88), 89, 90, 92-95, (96), 98, (99), 100, 101, (104), 105-110, (111), 112. HI-6, (7), 8, 9, (10, 11, 13), 14-16, 18-20, (21), 22, 23, 25-30, 32-36, (37, 38), 39, (40).

5.1.b **Marchantia polymorpha subsp. ruderalis** 1-21, (22), 23-49, 51-83, 85-96, (97), 98, 101, 102, (103), 104-107, (108), 109-112. HI, 2, 4-12, 15-28, (29), 30-40. C.

5.1.c **Marchantia polymorpha subsp. montivagans** 35, 42, (52), 62, 64-66, 68-70, 72, 77-83, (85), 88, (89), 90, (91), 92-97, (98), 105, (106), 107, 108, 112. H(28), 29.

5.2 **Marchantia quadrata** (3), 4, 6, 11, 17†, 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. HI-3, 5, (6), 7-9, (14), 15, 16, (17), 18, (19), 20, (21), 22-29, 31, 33-36, 38-40.

6.1 **Reboulia hemisphaerica** 1-3, (4), 5, 6, (7), 8-17, 20, (22), 26-28, 30, (33), 34-37, (38), 39-52, (55), 57, (58, 59), 60, (61, 62), 64, 65, (66, 67), 68, 69, 72, 73, (74), 75, (76, 77), 80-84, (85, 86), 87-89, (90), 92-94, 96-105, (106), 108, (109), 110, 112. HI, 2, 4, 5, 7-9, (11), 16, (17, 21), 23, 25-29, (33), 35, (38-40). C.

7.1 **Clevea hyalina** 92.

8.1 **Targionia hypophylla** 2-6, (11), 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.

9.1 **Conocephalum conicum** 1-5, 7, 9, 11, 13-17, 19, 20, 23-52, 55-88, 90-95, 97, 98, (99), 100-110, 112. HI-7, 9-12, 15-21, 27-29, 31, 33, 34, 36-40. C.

9.2 **Conocephalum salebrosum**

4, 23, 27, 28, 32-53, 56-59, 62-65, 67-70, 72-77, 79-83, 85-96, 98-100, 103-112. HI, 7-11, 16, 18-21, 28, 29, 33-36, 38, 39.

10.1 **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), 52-55, (56), 57-59, 61, 63-65, 67, 71-73, 79, 83, 85, 88-90, 93, 95, (101), 102, 103, 110, 111. HI, 3, 4, 9, 15, 17, 25, 27, 30, 35, (38), 39. C.

10.2 **Riccia crystallina** 1-3, 9, 11, (76).

10.3 **Riccia huebeneriana** 1-3, (9), 11-14, (17), 41, 42, 44-47, 49, (52), 57, (58), 59, 63-65, 67, 70, 99, 100. H20.

10.4 **Riccia fluitans** 3-6, (7), 9-32, (33, 34), 35-40, (41), 42, 44, 45, 47, 49-51, 53-55, (56), 57-61, (62), 63, 64, 66, 69, 99, 106. H5, 7, 8, 10, (13, 19), 20, (21, 23), 25, (29), 31-33, 36, 37, (38, 39), 40.

10.5 **Riccia rhenana** 1, (7), 15, (17), 18, (20), 21, (24, 28), 29, 37, 58. HI7.

10.6 **Riccia canaliculata** (13), 40, (48), 52, (58), 83, 86-90, 99.

10.7 **Riccia sorocarpa** 1-30, (31), 32-70, (71), 72-98, (99), 100-108, 110. H(1, 2), 3-5, (6, 8), 9, 10, 12, 13, 15, 16, 19-23, 25-28, 31, 32, (33), 34-40. C.

10.8 **Riccia nigrella** 1, 2, (37), 43, 48. (C).

10.9 **Riccia glauca** 1-65, (67), 69, 70, (71), 72-77, 79-82, (83), 84-90, 92-94, 96-98, (99), 100-107. H1-7, 9-14, (15), 16, 17, 19-23, 25-28, 31, (33), 34, 35, (37), 38-40. C.

10.10 **Riccia subbifurca** 1-4, (5), 6-8, 11-14, 16, 17, 20, 22, (24), 28, 29, 34-37, 40-50, 52, (56), 57, 58, 61, 63, 64, 69, 70, 73, (74), 81-83, (88), 93, 96-98, (99, 100), 101-105, (106), 108. H(1, 2), 3, (4-6), 9, 12, (14), 16, 20-23, 27, 28, (33), 34, 35, (36, 37), 38-40. C.

10.11 **Riccia crozalsii** 1, 2, (3, 14, 35), 45, 48, 49, 52. H3. C.

10.12 **Riccia bifurca** 1.

10.13 **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), 101-104, 110. H(1), 3, 9, 15, 16, (20), 26, 27, 30, 34, 35, (37), 38-40. C.

11.1 **Ricciocarpos natans** 6, 9, 12, 13, (14), 15, (16), 18-20, (21, 22, 24), 25-29, 31, 32, 35, 36, (38), 39, 40, 50, 53-55, (58), 61-64, (65), 66. H7-9, (15), 19, (20, 21), 22-24, (25), 30, (31).

12.1 **Dumortiera hirsuta** 1, 2, (3), 4, 14, 71, 98, 100, 102. H1-4, 6-11, 20, 29, (39).

13.1 **Pellia epiphylla** 1-30, 32-112. H1-40. C.

13.2 **Pellia neesiana** 1-9, 11-18, 21, 22, 24-29, 31-36, (37), 38-54, 57-70, (71), 72-83, 87-112. H1-4, 6-13, 15, 16, 18, 20, 21, 23, (24), 25-36, (37, 38), 39, 40. C.

13.3 **Pellia endiviifolia** 1-112, H1-40. C.

14.1 **Fossombronia foveolata** 1, (2), 3, 8, (9), 11, (12), 13, 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, 95-97, (98, 99), 101-105, (106), 108-110, 112. H1-3, (9), 16, 20, 26, 27, 35, (37, 39).

14.2 **Fossombronia angulosa** 1-3, 45, (48), 49, 110. H1-3, 9, 16, 27, (34), 35. C.

14.3 **Fossombronia caespitiformis** 1-3, (4), 6, (7, 8, 13, 14), 17, (23, 34), 35-37, (39), 40, 45, 46, (58, 69).

14.4 **Fossombronia husnotii** 1-3, (7), 9, 13, (35), 41, 42, (44), 45, 46, 49, (60). H1, 3, 5, 9, 16, 27, 34. C.

14.5 **Fossombronia pusilla** 1-67, (68), 69-98, (99), 100-107, 109, 111. H1-13, 16, 19-22, (23), 24-29, 31-36, (37), 38-40. C.

14.6 **Fossombronia maritima** 1, 2, 4, 11, 45, 49, 52. H3, 27. C.

14.7 **Fossombronia wondraczekii** 1-20, 22, (23), 24, 25, 27-29, (30), 31, 32, 34-52, 55-88, (89), 90, 92-94, (96), 97-99, 101-107, 109, 111, 112. HI, 3, 4, (5, 6), 7, 9, 10, 12, (13, 15), 16, 20, 21, (24, 25), 26-29, 31-33, (34), 35, (37), 38. (C).

14.8 **Fossombronia mittenii** (4), 7, (22).

14.9 **Fossombronia incurva** 1-3, 6, 9-14, 16, 17, 19, 22, 25, 27, 28, 35, 37, 40-42, 44-46, 48, 49, 53-59, (62), 63, 64, 69-72, 74-78, 80, 83, 87-89, (90), 93-98, 101-105, (106, 107), 110, 112. HI, 3, (6), 16, 27, 28, (30), 34-36, 38-40. C.

14.10 **Fossombronia fimbriata** 42, 44, 45, 49, 52, 57, 68, 72, 78, 79, 88, 96, (97, 98), 101, 104, 106. H27, 28.

15.1 **Petalophyllum ralfsii** 1, 3, 4, (6), 28, 41, 44-46, 48, (49), 51, 52, 59, (62), 68, 105, 110. HI, (2), 3, 9, 16, 21, 27, 28, 35, (39), 40.

16.1 **Moerckia hibernica** 88, (90), 92, 95, 96, 105, 106, 108, 112. HI, 2, (20), 27, 31, (34).

16.2 **Moerckia flotoviana** (1), 4, 26-28, 41, 42, 44, (45), 46, 48, 49, (50), 52, (57), 58, 59, 62-64, (65), 66-70, 72, 78-80, (82), 83, (85), 88-90, (91), 92, 94-98, 103, 105, (106), 108, 110-112. HI, 9, (14), 16, (17), 18, (21), 23, 26-29, (33), 34, 35, (38-40).

16.3 **Moerckia blyttii** 87-90, 92, 94, 96-98, 105-108.

17.1 **Pallavicinia lyellii** 6, (10), 11, (13), 14-17, (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).

18.1 **Pleurozia purpurea** 73-75, 86-88, (89), 92, 96-98, (99), 100-112. HI-3, 9, 10, 15-18, (20, 21), 23-30, 33-36, (38), 39, 40.

19.1 **Metzgeria violacea** 1-91, 93-104, 106-112. HI-40. C.

19.2 **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. HI, 3-18, 20, 22, 24-36, 38-40. C.

19.3 **Metzgeria furcata** 1-112, HI-40. C.

19.4 **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). HI-4, 6-11, (12, 13), 16, (17, 18), 20, (21), 22, 27-30, 33-40.

19.5 **Metzgeria leptoneura** 44, 46, 48, 49, 69, 70, 72, (73), 75, (76, 86), 87, (88), 97-108, (110, 111). HI-3, 6, 7, (16), 27, 28, (29, 35), 39.

19.6 **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.

20.1 **Aneura pinguis** 1-112, HI-40. C.

20.2 **Aneura mirabilis** (2), 3-5, (6), 8, 9, 11-14, (15, 16), 17, 22, (24), 25, 27, 28, 30, 38, 40, 41, 43-48, (49), 50, 69, 75, 79, 81, 83, (86), 87, (89, 92), 94-101, 105, 106, 108. HI, 2, 16, 20, 35.

21.1 **Riccardia multifida** 1-5, (6, 8), 9-17, 22, (25), 26-29, (30), 34, 35, (36), 37, 39-52, 56-60, (61), 62-83, 85-90, (91), 92-112. HI-9, (10), 11-16, (17), 18-21, 23-40. C.

21.2 **Riccardia chamedryfolia** 1-86, 88-112. HI-40. C.

21.3 **Riccardia incurvata** 1, 2, 9, 11, (13, 14), 17, 26, 28, 32, 35, 41, 42, 44-49, 52-54, 56, 58-60, (63, 65), 66, 69, (70, 71), 73-75, 78-80, (81), 82-86, 88-90, 92, 94-98, 101, 102, 104, 105, (106, 107), 108, 110, 112. HI, 5, (9), 16, 20, 27, 29, 34-36, 38, 40.

21.4 **Riccardia palmata** 2-6, 9, 11, 13, 17, 24, 33-35, 37, 39-51, 57-59, 62-92, 94-112. HI-6, (7), 9, 11, 12, 14-18, 20, 23-30, 33-35, (36), 38-40.

21.5 **Riccardia latifrons** 1-13, 17, 22, 24, (26), 27, 28, 31, (35), 40-52, 58, (67), 69-75, 77-81, 83, 88, (90, 91), 92-98, 101-110, 112. HI-4, (6, 7), 8, 9, (10), 11-13, (14), 15-20, (21, 22), 23, (24), 25-31, 33, (34), 35, 36, (37), 38, (39), 40. (C).

22. 1 **Porella platyphylla** 1-20, (21), 22-60, 62-70, (71), 72, 73, 75, (76), 77-83, 85-90, (91, 92), 93-95, 97, 98, (99), 100-102, 104, 106, 108, 112. HI, 2, 4-15, (16), 17-20, (21), 22-26, 28-30, (31, 32), 33, (36, 37), 38-40. C.

22.2 **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. HI, (5), 6, 7, 9, (13), 15, 20, 22, 23, (28), 29, (31-33, 36), 37, 38, (39), 40.

22.3 **Porella arboris-vitae** 1-6, 9-13, (14), 16, 17, 22, 23, (24, 33), 34-37, 39-50, 52, 57, 60, 62, 64-66, (67), 69, 70, 72, 73, (74), 75, 77-80, 82, 83, 85-90, 96-105, 108, 112. HI-3, (5), 6, (7), 8, 9, 16, 20, 23, (26), 27-29, (30), 33, (34), 35, 39, 40. (C).

22.4 **Porella obtusata** 1-4, (5), 6, 9, 10, 15, 33, (34), 41, 42, 45, 46, 48-50, 52, 69, (72), 73-75, 81, 82, 85, (86), 87, (88, 89), 90, 91, (96), 97-105, 107, 108, 110-112. HI-4, (5), 6-8, 16, (18), 20, 27, 28, 34, 35, 38, 39. C.

22.5 **Porella pinnata** 1-5, (36), 42-50, (69). HI-6, 8, (9), 10, 12, 13, 15, 20, 28-30, 32, (37), 38.

23.1 **Radula complanata** 1-83, (84), 85-112. HI-40. C.

23.2 **Radula lindenbergiana** 1-3, 45, 49, 52, 64, 65, 68-70, 72, (73, 75-77), 78, 85, (86), 87-90, 92, 95-98, (99, 100), 101-106, 108-111. HI-3, 6, 8, 16, 27, (28, 29), 39. C.

23.3 **Radula voluta** 48, 49, 70, 73, (75), 86, 97, 98, 101-105. HI-3, 6, 7, 9, 16, 27, (28), 35.

23.4 **Radula holtii** 97, 105. HI-3, 27.

23.5 **Radula aquilegia** 46, 48, 49, 69, 70, 73, 86, 87, 96-98, (99, 100), 101-108, 110, 112. HI-3, 6, 7, 16, 27, 28, (29), 34, 35.

23.6 **Radula carringtonii** 97, 101, 103, 104. HI-3, 27.

24.1 **Frullania tamarisci** 1-19, (20), 22-25, (26), 28, 29, 31-52, 54, (55, 56), 57-60, 62-83, (84), 85-112. HI-40. C.

24.2 **Frullania teneriffae** 1-4, 45, 46, 48, 49, 52, 58, (64), 69-75, 85, 88, 97, 98, (99), 100-105, 108, 110-112. HI-9, 12, 15, 16, (17-19), 20-22, 25, (26), 27-29, (30), 31, 33-36, 38-40. C.

24.3.a **Frullania microphylla var. microphylla** 1-5, 41, 44-46, 48, 49, 52, 64, (69, 70), 71, 73-75, (86), 97-105, 108, 110, (111). HI, (2), 3, 6, 7, 12, 16, 27, (28, 29), 33-35, 39, 40.

24.3.b **Frullania microphylla var. decuduifolia** 42, 49, 100.

24.4 **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. HI-3, 6-9, 15, 16, 19-21, 27-30, 33-35, (36), 38-40. C.

24.5 **Frullania dilatata** 1-112, HI-40. C.

25.1 **Jubula hutchinsiae** 1-5, 34, 35, 41-50, 63, 64, 69-76, 86, 97, 98, 100-105, (110). HI-4, 6, 8-11, 16, 20, 27, (28, 29), 31, (34), 35, 36, 38, 39.

26.1 **Cololejeunea microscopica** 41, 42, 44, 46, 48-50, 64, 65, 69, 70, (72), 73-75, (86), 87, 88, 96-108, 110. HI-4, 6-10, 15, 16, 20, 26-29, 33-35, (36), 39, (40).

26.2 **Cololejeunea calcarea** 34, 35, (36), 41, 42, 44, 46-50, 57, (59), 60, 63-70, 72, 73, 75, 76, 78, 80, 82, 83, 86-92, 94, 96-109, 111. HI, 2, 7-10, (15), 16, 27-30, (31), 33, (34), 35, 36, (38), 39, 40.

26.3 **Cololejeunea rossettiana** 3, (5), 6, 8-10, 34-37, 39-41, 43-45, 50, 52, 56, 57, 59, 60, 63-66, (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).

27.1 **Myriocoleopsis minutissima** 1-38, 40-65, 67, 69-71, 73-76, 97-105, 110. HI-13, 15-30, 32-35, 38-40. C.

28.1 **Colura calyptrifolia** 1-6, 8, 9, 14, 34, 35, 39-50, 52, 57-60, 63-65, 67, 69-76, 79, 80, 85, (86), 87, 88, 97-105, 108, 110, 111. HI-17, 20, 21, 24-30, 32-36, 38-40.

29.1 **Drepanolejeunea hamatifolia** 2, 6, 41, 42, 44, 48, 49, 64, (65, 69), 70, 73, 75, 86, 87, 97-105, 108, 110. HI-10, (14), 15-17, 20, (21, 25), 26-29, (31), 33-36, 38, (39), 40.

30.1 **Harpalejeunea molleri** 1, 2, (3), 11, 44-46, 48-50, 64, (65, 69), 70, (72), 73, 75, (86), 87, 97, 98, (99), 100-105, 108, 110. HI-3, 6, 7, 9, 15, 16, 20, 27-29, 33-35, (38), 39, 40.

31.1 **Lejeunea cavifolia** 1-9, 11-20, (21), 22-26, 29, (30), 31-51, 54, 57-60, 62-70, 72-93, (94), 95-112. HI-8, 10, 11, 13-16, (17), 19, 20, (21), 23, 25-30, 33-40.

- 31.2 **Lejeunea lamacerina** 1-6, 8-11, 13, 14, 17, 34-37, 39-52, 55, 57-60, (62), 63-65, 67, 69-82, 84-86, 88, 90, 96-105, 107, 108, 110, 111. HI-13, 15-17, 20, 21, 25, 27-29, 31-36, (37), 38-40. C.
- 31.3 **Lejeunea patens** 1-4, 35, 41-50, 52, 60, 63-65, (67, 68), 69-80, (83, 85), 86-89, (94), 96-112. HI-12, 15, 16, (17), 18, 20, (21), 25-30, (31), 33-36, (37), 38-40.
- 31.4 **Lejeunea flava subsp. moorei** HI-3, (6, 16), 27.
- 31.5 **Lejeunea hibernica** HI-3, 16, 27.
- 31.6 **Lejeunea eckloniana** 102. HI-3, (4), 5, 6, 10, 13, 16.
- 31.7 **Lejeunea mandonii** 1, 35, 97, 98, 104. HI, (2), 29.
- 32.1 **Marchesinia mackaii** 1-6, 9, 10, 34-36, 39-52, 56, 57, 60, 63-65, 67, 69, 70, (71), 72-75, 86, 97-105, 110. HI-12, 14-17, 20, (21), 22, 23, (26), 27-29, 31, 33, (34), 35, (38), 39, 40.
- 33.1 **Microlejeunea ulicina** 1-25, 30-52, 55-60, (62), 63-65, 67, 69-76, 79, 80, 83, 84, 86-88, 96-105, 108, 110. HI-36, (37), 38-40. C.
- 34.1 **Ptilidium ciliare** 2-6, 8, 11-13, 15, 17, (19, 21), 22, (24), 25-28, 30, 34-102, (103), 104-112. HI, 2, 6, 8, 12, 19-22, 27, 29, 30, 35, 36, 38-40.
- 34.2 **Ptilidium pulcherrimum** 5-7, (8), 9-20, 22-44, 47, 48, (50, 51), 53, 54, (55), 56-64, (65), 66-70, 72, (75), 76-78, 80-83, (84), 85-90, (91), 92-96, 98-101, 105-107, (108). H(31), 39.
- 35.1 **Blepharostoma trichophyllum** 1, 3, 4, 14, (16, 23, 33, 34), 35, (36), 37, (39, 40), 41, 42, (43), 44, 46-50, (54), 57, 59, 60, 62, (63), 64-70, (71), 72, 73, (74), 75-83, (85), 86-90, (91), 92, 94-112. HI-3, (6), 16, (20), 27-29, (31, 33), 34, 35, (38), 39, 40.
- 35.1.a **Blepharostoma trichophyllum subsp. trichophyllum** 3.
- 35.1.b **Blepharostoma trichophyllum subsp. brevirete** 97.
- 36.1 **Mastigophora woodsii** 88, 96-98, (99), 103-108, 110, 112. HI, 2, (16), 27.
- 37.1 **Herbertus stramineus** (48), 49, 69, 70, (86), 87-90, 96-98, (99), 103-108, 110-112.
- 37.2 **Herbertus hutchinsiae** 48, 49, 69, 70, (73), 75, 86-88, 97-108, 110, 111. HI-3, 6, 7, 16, 27-29, 33-35, 39.
- 37.3 **Herbertus noreus** 111, 112.
- 37.4 **Herbertus borealis** 105.
- 38.1 **Bazzania trilobata** 1-6, 11, 13, 14, 34, 35, (36), 37, 39-50, 52, 57, 58, (59), 60, 62-70, (71), 72-75, 78-80, (81, 85), 86-90, (91), 92, 94-108, 110-112. HI-3, (5), 6, 9, 12, (13), 16, 20, 21, 25, 27-29, (30), 33, (34, 35, 37, 38), 39, (40). (C).

38.2 **Bazzania tricrenata** 42, (44), 48, 49, 60, (64), 65, 69, 70, 72, 73, 75, (76), 78, 79, 86-90, 92, 94, 96-112. HI-3, (4), 6, (7), 8, 10, 12, 16, 20, 26-30, 33-35, (36, 39), 40.

38.3 **Bazzania pearsonii** (92), 94, 96-98, 102, 104-108, 110, 112. HI, 2, 16, 27, 35.

39.1 **Kurzia pauciflora** 1-5, (6), 8-15, (16), 17, 22, (23-26), 27, 28, (34), 35, (39), 40-46, (47), 48-50, 52, 54, (55, 57), 58-60, (61), 62, (63), 64-70, (71-73), 74, 75, (76), 77, 78, (79), 80, 81, (82), 83, (85, 86), 87-90, (91), 92, 95-112. HI-3, (5), 6, 7, 9, 10, (11), 12, (13), 14-20, (21), 22-31, 33-36, 38-40. (C).

39.2 **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, 102-105, 108, 110, 112. HI, (2, 4), 6, 8, 11, 15, 16, 20, 26-28, (33, 34), 35, 38. (C).

39.3 **Kurzia trichoclados** 2, 5, 39, 42, 44-50, 57, 58, 60, (62), 63-65, 67, 68, (69), 70, 74-78, 80, 81, 83, 87-90, (91), 92, 94-112. HI-4, 6-17, 19-21, (25), 26, 27, 29, 30, 33-36, 39, 40.

40.1 **Lepidozia reptans** 1-6, (7), 8-112. HI-29, (30), 31, 33-40. C.

40.2 **Lepidozia pearsonii** 44-49, (50), 57, (59), 60, 63-65, (67), 68-70, (71), 72, 73, (74), 75, (76), 78, 80, 83, 86-88, (90), 92, 94, 96-106, 108, (109), 110-112. HI-3, 7, 16, 20, 27-30, 33, (34), 35, 39.

40.3 **Lepidozia cupressina** 1-5, 34, 35, 40-48, (49), 50, 52, (58), 60, 63, 64, 67, 68, 70, (71, 75, 86), 92, 96-105, 108, 110-112. HI-3, (5), 6, (8, 12), 16, 20, (21), 25-30, 33, (34), 35, 36, 39, (40).

41.1 **Telaranea europaea** 1, 49. HI-3, 6, 16, 27, 35.

42.1 **Tricholepidozia tetradactyla** 1, 9, 11, 17, 77, 98.

42.2 **Tricholepidozia lindenbergii** 49.

43.1 **Trichocolea tomentella** 1-6, 8, 9, 11-14, (15), 16, 17, (18, 20, 21), 22, 24, (26), 34-37, (38, 39), 40-50, (52), 57, (58, 59), 60, 62-67, (68), 69-83, 85-90, (91, 92), 93-105, (106), 107-109, 111. HI-3, (4, 5), 6, 8, 9, (10), 13, (14), 15, 16, (18), 20, 21, 26-30, 33-36, (38), 39, 40.

44.1 **Lophocolea bidentata** 1-112, HI-40. C.

44.2 **Lophocolea bispinosa** 1-4, 9, 11, 13, 14, 17, 41, 72, 74, 78, 83, 95, 98, 102. H36.

44.3 **Lophocolea heterophylla** 1-91, 93, 95-105, (106), 112. HI-8, 10-15, (16), 17-23, (24), 25, 27, 29-33, (34), 35, (36), 37-40. C.

44.4 **Lophocolea semiteres** 1-4, 6, 10-14, 16-19, 21, 22, 24-31, 35, 38-41, 45, 46, 48, 49, 53-59, 61-66, 68-70, 72-81, 83-88, 90, 95, 96, 98-100. H2, 20, 38.

44.5 **Lophocolea brookwoodiana** 17.

44.6 **Lophocolea fragrans** 1-5, (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. HI-3, 5-12, (13), 15, 16, 20, 21, (24), 25-27, (28), 29, 33-40. C.

44.7 **Lophocolea muricata** 6†.

45.1 **Chiloscyphus polyanthos** 1-26, (30, 32), 33-52, 54-60, (61), 62-112. HI-16, 18-21, 23, 25-40. C.

45.2 **Chiloscyphus pallescens** 1-20, 22-54, 56-60, (61), 62-65, 67-70, (71), 72-78, 80, 81, (82), 83-85, (86), 87-90, (91), 92, 94-98, (99), 100-112. HI-3, (4-6), 7, (8), 9, (12), 13, 16, 19, 20, (21), 22, (23, 24), 25-33, (34), 35, (36-38), 40.

46.1 **Heteroscyphus fissistipus** 6. HI.

47.1 **Leptoscyphus cuneifolius** 48, 87, (88), 97-105, 108, 110. HI-3, (4), 7, 16, 27, 29, 33, 35.

48.1 **Plagiochila carringtonii** 87, 88, (90), 92, 94, 96-100, 102, (103), 104-108, 110-112. HI-6, 27.

48.2.a **Plagiochila porelloides var. porelloides** 1-17, 20, 22-24, 29, 30, 32-37, (38), 39-52, (54), 55-112. HI-40. (C).

48.2.b **Plagiochila porelloides var. norvegica** 9.

48.3 **Plagiochila asplenioides** 1-20, 22-112. HI-23, (24), 25-40. C.

48.4 **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.

48.5 **Plagiochila heterophylla** 46, 48, 49, 69, 70, 87, 97-99, 101-105, 108. HI-3.

48.6 **Plagiochila spinulosa** 1-5, (11, 34), 35, (37), 40-50, (57, 59), 60, (63), 64, 65, 67, 69-73, 75, 76, 78-80, 82, 83, (85), 86-88, 95-108, 110-112. HI-13, 15-17, 20, 25-30, 33-36, 38-40.

48.7 **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. HI-3, 5-11, 16, 20, 23, 25-29, 31, 33-35, 38-40. C.

48.8 **Plagiochila punctata** 1-5, 41-49, (64), 65, 69, 70, (71), 72, 73, 75, 86-88, 96-106, 108, 110, 112. HI-3, (5), 6-10, (13), 16, 20, 21, 26-29, (30), 31, 33, (34), 35, 36, (39), 40.

48.9 **Plagiochila exigua** 41, 42, 44, 46-49, (64), 65, 69, 70, (73), 75, 86, 87, 97, 98, (99), 100-105, 108, 110. HI-3, 6, 7, 9, 16, 27, (28), 35, (39, 40).

49.1 **Pedinophyllum interruptum** 42, 57, 60, 64, 65, 69, 98. H(1), 9, 28, 29, 33, 36.

50.1 **Acrobolbus wilsonii** 97, 98, 101, 103-105, 108, 110. HI, 2, (3), 16, 27, 35.

- 51.1 **Geocalyx graveolens** 97, 104, 105, 108, 110. H(1), 27, 33, 35.
- 52.1 **Gongylanthus ericetorum** I. C.
- 53.1 **Southbya tophacea** I, 9, 41, 45, 51, 52. H8, 20, 26, (28).
- 53.2 **Southbya nigrella** 9, 10.
- 54.1 **Calypogeia fissa** I-I12, H1-40. C.
- 54.2 **Calypogeia muelleriana** I-30, 34-52, 54-I12. H1-4, (5), 6-14, 16-31, (32), 33-40. C.
- 54.3 **Calypogeia azurea** 35, 40, 42, 48, 49, (50), 52, 57-60, (63), 64-70, 72, 73, 75, 76, 78, 80-83, 87-90, 92, (93), 94, 96-98, (99, 101), 102, 103, 105, 106, 108, 110-112. H1-3, (6, 7), 16, 20, 27, (33), 34, 35, (36, 40).
- 54.4 **Calypogeia neesiana** (3), 11, 13, 17, 40, 42, 44-46, (47), 48-50, 58-60, 62, 63, 67, (68), 69, 70, (72), 73, 75, 77-81, 83, (85), 87-89, (90), 91-93, 95-98, 101, 102, 104-110, 112. H2, (7), 10, (13), 15, 16, 20, 22, 23, 26-30, 33, (34, 35, 40).
- 54.5 **Calypogeia integristipula** 8, 14, (15), 16, 39, 57-60, 62-64, 66-68, 70, (72), 74, 78, 83, (86), 87, (92), 96, 97, 99, 100, (101, 105, 106). H(2), 33, (39).
- 54.6 **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), 74-77, 79-81, 83, 84, 86, (87), 88, 89, (90), 92, 93, 95-98, 101-112. H2, 3, (6), 7, 9, 10, (11), 14, 16-19, 22-28, (29), 30, (32, 33), 34-36, (37), 38-40.
- 54.7 **Calypogeia suecica** 89, 92, 94-98, 100, 101, 103-108. H1, 21, (33, 36).
- 54.8 **Calypogeia arguta** I-29, 32-52, (53), 54-88, 90, (91), 92-94, 96-106, 108-112. H1-18, (19), 20-22, (23), 24-29, (30), 31-40. C.
- 55.1 **Hygrobiella laxifolia** (14), 41, 42, 44-50, 57, 62-67, (68), 69-73, 75, 76, (77), 79, 80, 83, (86), 87-90, (91), 92, 94-108, (109), 110, 112. H1-3, (4, 6, 7), 16, 20, (21), 27-29, (33, 34), 35, (36), 38, (39), 40.
- 56.1 **Anthelia julacea** 3, 42, 46-49, 64, (65), 68-70, (71, 72), 73, 75, 78, (85), 86-90, 92, 94-98, (99), 100, (101), 102-108, 110, (111), 112. H1-3, 6, (7), 8, 13, 16, 20, 27, 28, 34, 35, 38, (40).
- 56.2 **Anthelia juratzkana** (48), 49, 75, 86-90, 92, 94, 96-98, 100, (101), 103-106, (107), 108, (109), 110, 112. H1, 16, 27, 34, 35, 39.
- 57.1 **Mesoptychia rutheana** (27), 69, 79, 80, 89. H27.
- 57.2.a **Mesoptychia gillmanii var. gillmanii** (64), 65, 68, 88, 89, 92, 97, 98, 104, (105), 106, 108-112. H27, 35.
- 57.2.b **Mesoptychia gillmanii var. laxa** 22, (27), 28.

57.3 **Mesoptychia 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. HI, (2), 3, (7), 9, 14-16, (20), 27-31, 33, 35, (36, 38), 39, 40.

57.4 **Mesoptychia fitzgeraldiae** 49, 88, 96-98, (103), 104, 105, 108, 111. H27-29, 33, 35, 39.

57.5 **Mesoptychia collaris** (34), 35, 36, 39-44, 46-50, 56, 57, 60, 62-67, 69, 70, (71), 72, 73, 75, (76, 77), 78-80, 82, 83, (85), 86-92, 94-99, (100), 101-108, (109), 110-112. HI, (2), 16, 26-29, 33-35, (36), 39.

57.6 **Mesoptychia heterocolpos** 42, 44, 46, 48-50, 65, (66), 67, 68, (69, 72), 83, (86), 87-90, 92, (94), 95-98, 101, (103), 104-108. H39.

57.7 **Mesoptychia badensis** (1, 2), 4-9, 11-14, 16-18, 20, 22-24, (25), 28-30, 32-36, 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, 13-23, 25-29, 33-35, (36), 38-40.

57.8 **Mesoptychia turbinata** 1-47, (48), 49-54, 56, 57, (58), 59-78, 80-85, (87), 89-91, 93-98, (99), 100-104, 106, (107), 108-112. HI, 2, 4, (5), 6, (7), 8-13, (14, 15), 16, 17, (18), 19-22, 24-29, (31, 32), 33-36, (37, 38), 39, 40.

58.1 **Liochlaena lanceolata** (14, 62, 64, 69), 105.

59.1 **Eremonotus myriocarpus** 42, 48, 49, (69), 70, 80, 86-89, (90, 91), 96-99, 101, 103-106, 108, 111. HI, 2, 16, 27, 34, 40.

60.1 **Jungermannia atrovirens** (1, 2), 3-7, (8), 9, 12-14, (23, 32), 33-37, 39-52, 55-60, (61), 62-73, (74), 75-112. HI-3, (4), 5-11, 16, 17, 20, 22, 23, 25-36, (37, 38), 39, 40.

60.2 **Jungermannia pumila** 1-6, 12-16, 34-37, 39-51, (52), 57-60, 62-90, (91), 92-106, 108-112. HI, (2), 3-8, 10, (11), 13, 14, 16, 20, 26-29, (30, 31), 33-35, (36, 37), 38-40.

60.3 **Jungermannia polaris** 88-90, (92), 94, 97, 111.

60.4 **Jungermannia borealis** 42, 44, 49, 87-90, 92, 94, 96-98, 101, 104, 105, (106).

60.5 **Jungermannia eucordifolia** 35, 42, 44, 45, 47-51, 57, 59, 60, (62), 63-70, (71), 72, 73, 75, (76), 77-83, (85), 86-90, (91), 92, 93, 95-98, (99), 101-112. HI-3, (6), 16, 27, 34-36, (38-40).

61.1 **Harpanthus flotovianus** 69, (73), 87-90, 92-94, 96-98, 104-108, (109), 111, 112.

61.2 **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. HI-3, (6), 16, (20), 27, (28), 29, 33, 35, (36, 39, 40).

62.1 **Saccogyna viticulosa** 1-6, 11, 14, 34-37, 39-50, 52, 59, 60, 62-65, (66), 67, 69-76, (77, 78), 86-88, (90), 93, 96-108, 110-112. HI-11, (12), 13, 14, 16, 18, 20, (21), 25-31, (32), 33-35, (36), 38-40. C.

63.1 **Endogemma caespiticia** 1, 2, (10, 17, 33), 43, 47, 57, 59, 63, 64.

64.1 **Solenostoma sphaerocarpum** 3, (4, 36), 39, 41-44, 46-50, (55), 57-60, 62-70, (71), 72, (73, 75), 80, 83, (86), 87, 88, (89-91), 92, 96-99, 101, 102, 104-109, (110), 112. H(1-3), 9, 14, 16, 20, 21, 27, 29, (31, 33, 36-40). (C).

64.2 **Solenostoma confertissimum** (44, 65, 66), 79, 88, 89, (91), 92, 94, 96-98, 104, 105.

64.3 **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), 26-30, (31), 32-36, (37), 38-40. C.

64.4 **Solenostoma hyalinum** 1-5, (6), 7, 8, (9, 10), 11-16, (17, 20, 21), 22, (23), 27, (33, 34), 35, (36), 37-51, (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.

64.5 **Solenostoma paroicum** 5, 12, 35, 39, 41-43, (44), 46-50, 57, 59, 60, (62-64), 65, 67-70, (71), 72, 73, 75-83, 86-98, (99), 100-112. H1, 6, 8, 16, 27, 34, (35, 36, 38-40).

64.6 **Solenostoma obovatum** 41-50, 57, 58, (59), 60, 62-70, (71-74), 75-78, (79), 80-83, 86-90, (91), 92, 94-108, (109), 110, 112. H1-3, (4, 6, 7), 8, (9), 16, 20, (21), 27, 29, (30), 33-36, (38), 39, 40.

64.7 **Solenostoma subellipticum** (2, 5), 35, 42, 48, (49), 62, 64, 65, (67), 70, 72, 79, 80, 82, 83, 87-90, (91), 92, 94-98, 100-106, 108, 110-112. H16, 27-29, 34, 35, (39).

65.1 **Nardia compressa** 2-5, 14, 35, 39-50, 57-60, 62-67, 69-73, 75, 76, 80, 83, 86-89, (90), 91, 92, 94, 96-108, 110-112. H1-3, 6, 7, (8), 10, 12, 13, 16, 20, 21, (26), 27-29, (30), 33-35, (36), 38, (39).

65.2 **Nardia scalaris** 1-6, (7), 8-18, 20, (21), 22, 23, (24, 25), 27, 28, 30, 32, (33), 34-37, (38), 39-52, (54), 55-60, (61), 62-112. H1-16, 18, 20-22, 25-31, 33-40. C.

65.3 **Nardia geoscyphus** (3-5, 11), 12, (13), 14, (16), 17, (18), 22, (28, 34, 35, 38), 40, 41, 45, 46, (48), 49, 54, 57-60, (61, 62), 63, (64-67, 69, 72, 77), 79, 87-89, (90), 92, (93), 95-98, (101), 102, 104-106, (107), 108, (109), 112. H1, 2, (13, 16), 27, 34, 35, 39.

65.4 **Nardia insecta** 67.

65.5 **Nardia breidleri** 87-89, (90), 92, 94, 96-98, 105, 106.

66.1 **Gymnomitrium concinnatum** (2), 45, 47-49, (64), 68-70, 72, 73, (75), 77, 78, 80, 86-90, (91), 92, (93), 94-98, (99), 100, (101), 103-108, (109), 110. H16, 27, 34, 35, (39).

66.2 **Gymnomitrium obtusum** (2, 4), 40, 42, 46-50, 65-70, 72, 73, 75-78, 80, (85), 86-90, (91), 92-100, 102-108, (109), 110, 112. H1, 6, 13, 16, 20, 27, 35, (38, 40).

66.3 **Gymnomitrium corallioides** (49), 88, 89, 92, 97, 104, (105), 106, 108, (109). H(1), 34.

- 66.4 **Gymnomitrion crenulatum** 3, 4, 44-46, 48, 49, 65, 68-73, 75, 78, 86-88, (90), 92, 96-98, (99), 100, (101), 102-112. HI-4, 6, 7, 12, 13, 16, 20, (21), 27, 28, (29, 30), 31, 33-35, (36), 38-40.
- 66.5 **Gymnomitrion adustum** 48, 49, 69, 70, 72, 73, (77), 87, 88, (89), 90, 92, 94, 96-98, (99), 103-106, (108), 110. HI, 27, 35, 36, 38-40.
- 66.6 **Gymnomitrion brevissimum** 86-88, (89), 90, 92, 94, 96-98, 104-106, (107), 108.
- 66.7 **Gymnomitrion alpinum** 48, 49, 69, (70), 73, 75, 86-88, (89), 90, (91), 92, 94, 96-98, 103-106, 108. H20.
- 67.1 **Marsupella apiculata** 92, 94, 96, 97.
- 67.2 **Marsupella emarginata** 1-5, (6), 13-16, 34-37, 39-50, 52, 57-60, 62-112. HI-10, 12, 13, (14), 16, 20-22, 25-29, (30), 31-36, (37), 38-40. (C).
- 67.3 **Marsupella aquatica** 3, 4, (36), 41-49, 57, 58, (59, 60, 62), 63, (65, 66), 67, (68), 69, 70, (71), 73, (74), 75, (76), 78, (80, 83), 86-88, (89), 90, (91), 92, 94-97, (98-100), 101, 102, (103), 104, 105, 107, (108, 109), 110, 111. HI, 2, (3, 4, 6, 13, 16), 20, 21, 26-29, (30), 33-35, (36, 38, 39).
- 67.4 **Marsupella arctica** 92, 94.
- 67.5 **Marsupella sphacelata** 4, (42), 44, 48, 49, (62, 65), 70, 73, (86), 88-90, 92, 94, 96-100, (101), 102-108, (110). H6, 20, (27, 33), 35.
- 67.6 **Marsupella funckii** (1), 2, 3, (4, 7, 9, 14, 37, 40), 42-44, 46-50, (58, 65), 68-70, (72), 73, 75, 77, 79, 80, 83, 86-88, (89), 90, (91), 92, 94-99, (100), 101, 103-108, 110. H(2), 3, (7), 12, 16, 20, 27, 31, (35, 37, 38), 39. C.
- 67.7 **Marsupella sprucei** 1-3, 13, 42, 44-46, 48, 49, (62), 64, 65, (66, 67), 68-70, 72, 73, (76), 78, (79, 87), 88-90, 92, 94, 96-98, (99, 101), 102-106, 108. HI, (2), 16, 20, 27, 35, (36), 38, 39.
- 67.8 **Marsupella profunda** 1, 2.
- 67.9 **Marsupella sparsifolia** 92, 94, 96, 97.
- 67.10 **Marsupella boeckii** (92), 96-98.
- 67.11 **Marsupella stableri** 48, 49, 69, 70, 88, (90), 92, 94, 96-98, 100, 103-106, 108.
- 67.12 **Marsupella condensata** 88, 92, 94, 96, 97.
- 68.1 **Adelanthus lindenbergianus** 102. HI, 16, 27, 35.
- 69.1 **Syzygiella 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.

70.1 **Pseudomarsupidium decipiens** 2, 3, 46, 48, 49, 69, 70, 73, 86, 87, 97-105. HI-3, 6, (7), 9, 15, 16, 25, 27, (28), 29, 33, (34), 35, (39), 40.

71.1 **Cephalozia bicuspidata** 1-112, HI-18, (19), 20-40. C.

71.2 **Cephalozia ambigua** 88, 92, 94, 96.

71.3 **Cephalozia catenulata** 1, (2, 3), 4, 11, (13), 14, 41, 42, 44, 46-49, 52, (62, 63), 64, (67), 68, (69), 70, (71), 72-75, (80), 83, 88, (92), 95, (96), 97-100, 102-105, 108, 110, 112. HI, (2, 3, 7, 9, 13), 16, (17, 18), 20, (21), 25, 27, 28, (29-31, 33, 34), 35, (36, 38, 39).

71.4.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. H(1), 3, 10, 18, 19, 25, 28, 34, (35, 37).

71.4.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. H(7), 9, 19, 20, 34, (35).

71.5 **Cephalozia leucantha** (1), 2, (17, 48, 49), 50, 60, (68), 70, (72), 73-75, (77), 78, 80, (81-83, 86, 87), 88, (89-91), 92, (93), 94-99, (100), 101-112. HI, 3, (9, 12), 16, 20, (25), 26-30, 33, (34), 35, (36, 40).

71.6 **Cephalozia lunulifolia** 1-17, 20, 22-26, 29, 31-37, 39-52, 54, (55, 56), 57-60, (61), 62-70, (71), 72-76, (77), 78-89, (90), 91-112. HI-4, (5), 6-12, (13), 14, (15), 16, 18, 20, 21, (26), 27-29, (30), 31, 33-36, (37), 38-40.

71.7 **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, 102-106, 108-112. H(1), 9, 14, 16, 20, 23, 25-27, 35, 36, 38, (39).

71.8 **Cephalozia loitlesbergeri** 46-48, 50, 60, (64, 66), 70, 73-76, (77), 79-81, 83, 87-89, (90), 92, (94), 95-98, 102-112. H9, 14, (16), 18, (22), 24, (35), 39.

71.9 **Cephalozia connivens** 1-6, 8-18, (19, 20), 22, (23), 24-30, (32), 34, 35, 38-52, 54, 55, 57-112. HI-4, (6), 7-10, (11), 12-20, (21), 22-36, (37), 38-40. C.

71.10 **Cephalozia crassifolia** HI-3, 7, 16, 27.

71.11 **Cephalozia curvifolia** 1-52, 55-112. HI-3, (5), 6, (7), 9, (11), 15-18, 20, 21, 23, 25-29, (30, 31), 33-35, (36), 37-40.

71.12 **Cephalozia albescens** 88, (89, 90), 92, 94, 96-98, (100), 105, 106.

72.1 **Odontoschisma fluitans** 1-3, 8-15, 17, 22, (27), 28, 35, 39-50, 57-60, 62-64, (65), 66, 67, (68), 69, 70, 73-77, 80, (83, 88, 92), 95-99, (101), 102-110, 112. HI-3, 9, 10, 16-20, (21), 22, 23, (24), 25-28, 30, 33-36, (37, 38), 39.

72.2 **Odontoschisma francisci** 1, 2, (3), 8, 9, 11, (12), 13, 14, (16), 17, (22, 24-28, 34, 35), 40, 41, 45, 46, (48), 52, (58), 61, 62, (64, 71), 88, (90, 91), 92, 94-99, (100), 101, 102, (103), 104, 105, (110). HI, (3, 21, 27), 29, 35, 38, (39).

72.3 **Odontoschisma sphagni** 1-5, 8, 9, 11-15, (16), 17, (21), 22, (23-25), 27, 28, (29, 34), 35, (37), 39-52, 54, (55), 57-70, (71), 72-84, (85), 86-112. HI-4, (5), 6-10, (11), 12, (13), 14-20, 22-40.

72.4 **Odontoschisma denudatum** 2-5, 8, 9, 11-14, (16), 17, 22, 25, (26), 28, 39-52, 57-61, (62), 63, 64, (66), 67-70, (71), 72-75, 77-81, 83, (84, 85), 87-89, (91), 94-110, (111), 112. HI-3, (7), 9, 10, (11, 13, 14), 15-20, (21), 22-30, (31), 33-36, (37, 40).

72.5 **Odontoschisma elongatum** 49, 75, 87-89, 92, 94, 96-98, (99), 102, 104-108, 110, (111), 112. HI, 3, 12, (16), 27.

72.6 **Odontoschisma macounii** 88, 97, 98, 105, 106.

73.1 **Anastrophyllum hellerianum** 41, 42, 44, 46-48, (69), 70, 87, 88, 92, 95-98, 101, 104, 105, 107, 108. H(33, 40).

73.2 **Anastrophyllum donnianum** 88, 92, 94, 96-98, 104-108.

73.3 **Anastrophyllum joergensenii** 92, 94, (96), 97, 105, 106, 108.

73.4 **Anastrophyllum alpinum** 105-108.

74.1 **Sphenolobus minutus** (4), 11, (14), 35, 36, 42, 44-46, 48, 49, 52, 57, (60), 62, (63), 64-67, (68), 69, 70, 72, 73, (74), 75-83, (85), 86-98, (99), 100-112. HI-3, (6, 7, 13), 16, 20, 21, (25), 27-30, 33, (34), 35, (36, 38).

74.2 **Sphenolobus saxicola** 92, 95, 96, 108.

75.1.a **Gymnocolea inflata subsp. 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, 23-25, (26), 27-29, (30), 31, (33), 34-36, (37), 38-40. (C).

75.1.b **Gymnocolea inflata subsp. acutiloba** 48, 96.

76.1 **Orthocaulis floerkei** 2-5, (6), 13, 28, 35, 36, (37), 39-52, 55, 57-60, 62-112. HI-3, 6, 7, (8), 10, 12, 13, (16), 20, (21), 27, (28), 29, (30), 31, 33-36, 38-40.

76.2 **Orthocaulis atlanticus** 39, 40, 46-52, 55, 57-60, 62-65, (66), 67-72, (73), 75, 76, 78-80, 83, 85, 86, 89, 90, (91), 92, 94-99, (100), 101, 102, 105, 108-112. H6, 34.

76.3 **Orthocaulis attenuatus** 1-5, (6, 9, 11), 12-14, 16-18, (20, 22, 23), 24, 27, 28, 30, 34-37, 39-52, 54-60, (61), 62-70, (71), 72-90, (91), 92-108, (109), 110. H(1), 3, 6, (7), 11, (12, 13), 16, 20-22, 25, 27, 28, (29), 30, 31, 33-36, (37), 38-40. C.

77.1 **Anastrepta orcadensis** (4), 46-50, 60, 64, 65, (68), 69, 70, 72, 73, 75, 77, 78, 83, (85), 86-90, 92-112. HI-3, 16, 20, 27, (29), 30, 33, 35.

78.1 **Tetralophozia setiformis** (68), 88-90, (91), 92, (93), 94-98, 105, 106, 108, 109.

- 79.1 **Sphenolobopsis pearsonii** 42, 44, 46-49, (64), 69, 70, (73, 75, 87), 96-106, 108, 110. H1, 2, (3, 6), 7, 16, 20, (27, 31), 33, 35, 40.
- 80.1 **Biantheridion undulifolium** (1), 2, (34), 40, 43, 47, 69, 98, 101.
- 81.1 **Barbilophozia quadriloba** 88, 89, 92, 98.
- 81.2 **Barbilophozia kunzeana** 35, 40, 42, 43, 47, 48, 51, (64), 67-69, (71), 80, 88, 90, (92), 95, 96, (97), 105, 108, (110), 112. H(28).
- 81.3 **Barbilophozia hatcheri** 4, (26), 28, 40, 42, 43, 48, 49, (50), 55, 64-70, 72, 75-99, 105-110.
- 81.4 **Barbilophozia lycopodioides** 64-66, (68), 69, (70), 87-90, 92, 94, 96-98, 104-106, (107), 108, 112.
- 81.5 **Barbilophozia barbata** 2, 3, (14, 25), 26, (28), 35, 36, (37), 40, (41), 42-44, 46-51, 54, (55), 57, (59), 60, 62-70, 72-76, (77), 78-90, (91), 92-100, (101), 103-108, (109). H(1, 12), 20, (21, 27, 30, 35), 40.
- 81.6 **Barbilophozia sudetica** 2, 3, 35, 36, 40, 42-50, 52, 57, (58), 60, 63-65, (66), 67-73, 75-90, (91), 92-99, 101-106, (107), 108, (109), 110, 112. H1-3, 12, (13), 16, 20, (21), 25, 27, 28, (30), 31, 35, (36, 37), 38-40.
- 82.1 **Isopaches bicrenatus** 1, 2, (3), 4-6, (7, 8), 9, (10, 11), 12-18, (19-21), 22, 23, (24), 25-28, (30, 32, 33), 34-37, (38, 39), 40-54, (55), 56-60, (61, 62), 63, (64), 65-67, (68), 69, 70, (71), 72-75, 77-84, (85), 86, 88-92, 94-98, (99, 100), 101-106, 108, (109). H(1, 2, 4), 6, (7, 8), 10, 12, (13, 16), 20, (21), 22, 28, (35), 36, (37, 38), 39, 40. (C).
- 83.1 **Cephaloziella spinigera** 1, (2, 4, 8), 12, (13), 14, 17, 22, (34), 46, (52, 67), 69, 70, 81-83, (88, 92, 96), 97, 98, 104, 105, 110, 112. H(1), 9, 10, 20, 23, (27), 29, 35.
- 83.2 **Cephaloziella elachista** 8, 11, 12, 14, (22, 27), 40, 45, 58, (61), 69, 70, 81. H19, (21), 23.
- 83.3 **Cephaloziella rubella** 4-7, 9, (11), 12-14, 17, 20, 22, (23), 24-26, (28, 29), 30, (33, 34), 35, (37, 38), 40-43, 45, 46, 48, 50, (51, 56), 57-60, (61, 62), 63, 64, (67), 68, 69, (71, 72, 74, 76), 78, (80, 81), 82, 83, (85, 86), 87, 88, (89-91), 92, 93, (94), 95-99, 103, (105), 106, (107), 110, (111). H6, 9, 20, 23, (34, 37, 39). (C).
- 83.4 **Cephaloziella hampeana** 1-6, (7), 9-20, 22, (23), 24, 26-28, (29), 31, 34, 35, 38-52, 55, (56), 57-60, (61), 62-70, (71), 72-75, (76), 77-80, 82, 83, 85-88, (89), 90, (91), 92-99, 101-110, 112. H1-3, (4), 5, 6, (7), 8-10, (11, 12), 13, 15-18, 20-25, 27, 28, (29, 30), 32, (33), 34, 35, (36, 37), 38-40.
- 83.5 **Cephaloziella baumgartneri** 9-11, 13, (14), 15, (17).
- 83.6 **Cephaloziella divaricata** 1-9, (10), 11-73, (74), 75-108, 110-112. H(1), 2-4, 6-13, 16, 18, 20-23, 26-28, (29, 30), 31, 33-36, (37, 38), 39, 40. C.

83.7 **Cephaloziella stellulifera** 1-6, (10, 13, 14, 16, 33), 34, 35, (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.

83.8 **Cephaloziella massalongoi** 1-4, 48, 49, 52, 58, 69. H2, 3, 6, 20, 21.

83.9 **Cephaloziella nicholsonii** 1-4, 46, (48), 49, 58. H3, 6, 10, 12, 20.

83.10 **Cephaloziella dentata** 1, 45.

83.11 **Cephaloziella turneri** 1-4, (10, 11, 13, 14, 16, 33), 34, 35, (36, 38), 44-46, 48, 49, (101). H(2), 3, 11, 12, 20, 35. (C).

83.12 **Cephaloziella integerrima** 1, 2, (7, 13, 14, 22), 45, 110. H3, 6, 34.

83.13 **Cephaloziella calyculata** 1, 2, 6, 41, 45, 46.

84.1 **Protolophozia herzogiana** 12, 93.

85.1 **Oleolophozia perssonii** 8, 12, 14-16, 18, 21, 24, 27, 29, 56, 57, 63, 64, 66. H8, 19.

86.1 **Obtusifolium obtusum** (48), 49, 65, 67, (71), 80, 88, 89, 92, 95-98, (99), 104-106, 108.

87.1 **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.

87.1.a **Lophozia ventricosa var. ventricosa** 13, 14, 18, 22, 40-42, 44, 45, 47, 48, 50, 57, 58, 60, 64, 72, 78, 79, 81-83, 86, 89, 90, 93, 94, 101, 104, 110, 112. H6, 9, 20, 27, (33-36).

87.1.b **Lophozia ventricosa var. silvicola** 11, 13, 14, 22, 35, 41-49, 58, 60, 64, 69-71, 78, 80, 81, 83, 93, 95-97, 99, 110. H9, (33, 36).

87.2 **Lophozia guttulata** 96, 106.

87.3 **Lophozia wenzelii** 70, (90), 98, 105, 108.

87.4 **Lophozia longidens** (48), 65, (66, 70), 87-92, 94-99, 104-106, 108.

87.5 **Lophozia excisa** 1-6, (7), 9-14, (15), 16, 17, (18, 19), 20, 22, 23, 25-30, (32, 33), 34-37, (38), 39-50, 52, 54, (55), 56-60, (61), 62-75, (76), 77-85, (87), 88-99, 101-106, (107, 108), 109, 110, 112. H1, 2, (3, 4), 5, 6, (7), 12, (16), 20, 22, 27, 28, (29), 31, (33), 34-40. C.

88.1 **Heterogemma capitata** 9, (11), 12, (14), 17, (19), 22, 24, 28, 56, 58.

89.1 **Tritomaria exsectiformis** 1, (2), 3, 4, (5, 7), 8, 9, (10), 11, 12, (13), 14, (15), 16, 17, 22, (23-25), 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, 85-90, (91), 92, (93), 94-112. H1-3, 5, (6-8), 9, (10, 13), 16, (17), 20, 22-29, (30), 33, (34), 35, 36, (37), 39, (40).

89.2 **Tritomaria exsecta** 35, (40), 42, 44, 46, 48, 49, 70, 72, 73, (80), 86-88, 96-99, (100), 101, 103-105, 108. HI-3, (16), 27, (35).

89.3 **Tritomaria quinquedentata** 2, (3), 4-6, 35-37, 39, 40, 42-51, (52), 57, 59, 60, 62-83, (84), 85-112. HI-3, 6-8, (9), 16, 20, 27-31, 33-36, (37), 38-40.

90.1 **Schistochilopsis incisa** 1-6, (9), 11, (13), 14, (15), 16, 17, 22, (25-27), 28, 35-37, 39, 41-52, (55), 57-60, (61), 62-70, (71), 72-75, (76), 77-90, (91), 92-112. HI-10, (11), 13-20, (21), 22-30, (32), 33-36, (37, 38), 39, 40.

90.2 **Schistochilopsis opacifolia** 42, 49, (69), 78, 86-90, 92, 94, 96-98, 105-108, 110. HI, 6, 8, 16, 20, 27, 29, 35.

91.1 **Saccobasis polita** 86-90, 92, 96-98, (99), 104, (105), 106, 108.

92.1 **Diplophyllum albicans** 1-25, 27-30, 32-52, (53), 54-112. HI-18, 20-40. C.

92.2 **Diplophyllum taxifolium** (49, 69, 87), 88-90, 92, 94, 96-98, 105-108.

92.3 **Diplophyllum obtusifolium** 1, 2, (3), 4, 5, (6), 9, 11, (13, 14, 16), 17, (22), 27, 28, 34-36, 39-50, 57, (61), 67-69, (72), 73-75, (77), 78-82, (85), 86-99, 101, 104, 105, (106, 108, 112). HI, (3, 4, 6), 10, 13, 20, 21, (32), 34, (37).

93.1 **Douinia ovata** (1), 2-4, 42-49, (65, 68), 69, 70, (71), 72, 73, 75, 78, 80, 86-90, (91), 92, (94), 95-101, (102), 103-108, (109), 110, 112. HI-3, 6, 8, 10, (12), 16, 20, (21), 27, (31, 34), 35, 38, (40).

94.1 **Scapania compacta** 1-5, (6), 8-11, 13, (14-16), 17, (20), 22, (24-26), 27, 28, (32, 34), 35-37, 39-50, 52, 54, (55), 57, 59, 60, (62), 63-65, (66), 67-90, (91), 92, 93, (94), 95-106, (107), 108-112. HI, (2), 3, (4), 6, 8, 9, 12, 13, 16, 20, 21, 27, 28, 31, 34, 35, (37), 38-40. C.

94.2 **Scapania gymnostomophila** 44, 49, 87-90, 92, 94, 97, 98, 104. HI, 26, (34), 35.

94.3 **Scapania calcicola** 42, 86-90, 92, 94, 96-98, 104, 106, 111.

94.4 **Scapania cuspiduligera** 35, 40-42, 44, 45, 47, 49, 57, 64, (65-67, 69), 80, 83, 87-92, 94, 97, 105, 108-110. H27, 28, 34, 35.

94.5 **Scapania scandica** 1-5, 14, 34-36, 39-52, 57-60, 62-70, 72, 73, 75-85, (87), 88-92, 94-99, 102-112. HI, 2, 5, 6, (7), 8, 10, 14, 20, 27-30, 34, 35, (36).

94.6 **Scapania curta** 1, 2, (12, 13), 14, (15), 16, 57, 60, 63, 64, 87, 95, 96, 104. H4, 27.

94.7 **Scapania lingulata** 4, 42, 44-46, 49, 52, 57, 75, 81, 89, 90, 92, 95-98, 104, 106, 108. HI0, 27, 39.

94.8 **Scapania praetervisa** (64), 88, 91, 95.

94.9 **Scapania parvifolia** 87, 88, (97), 98.

94.10 **Scapania umbrosa** (1), 2-5, (13), 14, (16, 34), 35, (37), 39, 42-50, 57-60, 62-70, 72, 73, (74), 75-84, (85), 86-92, (93), 94-112. HI-3, 6-10, 12, 13, 16, 20, 21, 25-30, 33-36, (37-39), 40.

94.11 **Scapania nemorea** 1-7, (8), 9-17, (18, 19), 20-22, (23), 24, (25-27), 30, 31, (32), 33-37, (38), 39-52, 54, 55, (56), 57-70, (71), 72, 73, (74), 75, 76, (77), 78-81, 83-90, (91), 92, 93, (94), 95-112. HI-4, (5), 6-10, 12, 13, 16, 19-21, 25-36, (37), 38-40. (C).

94.12 **Scapania irrigua** 1-9, (10), 11-22, (23-27), 28, (30, 33), 34-52, 54, (55), 56-112. HI-10, (11), 12, 15-18, 20, (21, 22), 23-36, (37), 38-40.

94.13 **Scapania degenii** 65, 66, 70, 87-89, 92, 94-98, 104, 105, (107), 108, 112.

94.14 **Scapania paludicola** (2), 35, 40-50, (64), 79, 80, 90.

94.15 **Scapania undulata** 1-6, (7), 8, 9, (10), 11-18, (19, 20), 21-23, (24, 27, 32), 34-37, (38), 39-52, 54, 55, 57-60, 62-112. HI-16, 18, 20, 21, (24), 25-40. (C).

94.16 **Scapania subalpina** (2), 3-5, 42-44, 46-49, (50, 51), 60, (64), 65, (66), 67-70, 72-81, 83, (85), 86-99, 101, 102, (103), 104-110, (111), 112. H(1, 6, 7), 16, (20, 27), 34, 35, (36, 38-40).

94.17 **Scapania uliginosa** (36), 46, 48, 49, 60, (62, 64), 69, 70, 73, 86-90, 92, 94, 96-98, (99), 103-108, 112.

94.18 **Scapania paludosa** 49, 70, 88-90, 92, 94, 96-98, 105, 106, 112.

94.19 **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. HI, 7, 28, 29, 34, 35, 39.

94.20 **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), 96-112. HI-3, 7-11, (13), 14-18, 22-30, 33-35, (36), 39, 40.

94.21 **Scapania gracilis** 1-5, 8, 9, 11, 14, 16, 34, 35, (36, 39), 40-52, 57-60, 62-76, (77), 78-81, (82), 83-90, (91), 92-112. HI-18, 20, 21, 23, 25-31, 33-40. C.

94.22 **Scapania ornithopoides** 49, 69, (70), 87, 88, 92, 94, 96-98, (99), 100, 102, (103), 104-108, 110, 112. HI, 2, 16, 27, 35.

94.23 **Scapania nimbosea** (49), 87, 88, 92, 94, 96-98, 102-108, 110. HI, 27, (35).

95.1 **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, (91), 92-112. HI-4, 6-10, 12, 13, (14), 16, (17, 18), 19, 20, (21), 25-30, (31), 33-37, (38), 39, 40.

95.2 **Mylia anomala** (1), 2-4, (5, 6), 8-14, (15), 16, 17, 22, (24, 25), 27, 28, 35, 39-52, (55), 57-70, (71), 72-112. HI-4, (7, 8), 9, 10, (11, 13), 14, 15, 17-20, 22-28, (29-31), 32-40.

MOSSES

- 1.1 **Sphagnum strictum** 48, 49, (69), 73, 75, (86), 87, 88, (89), 92, 96-98, 100, 101, 103-108, 110, 111. H1, (2), 3, 16, (27), 28, 34, 35, (39, 40).
- 1.2 **Sphagnum compactum** 1-5, (6), 8, 9, (10), 11-15, (16), 17, 18, (19), 20, (21), 22, (24, 26), 27, 28, 34-36, 40, 41, (42), 43-54, 57-60, (61), 62-70, (71), 72, 73, (74), 75-90, (91), 92-112. H1-5, (6), 7-10, (12), 13-20, (21), 22, 24-31, 33-35, (36), 37-40.
- 1.3 **Sphagnum austinii** 3, 4, 46, 48, 49, 66, 67, (69), 70, 73-75, 77-81, 83, 88, 89, (90), 92-98, 102-105, 107-112. H1, 2, 9, 10, 14-20, 22-28, (29), 30, 32, 33, (35), 36, 39, 40.
- 1.4 **Sphagnum affine** 48, 49, 69, 70, (72), 73-75, (86), 87, 88, 92, 95-100, 102, 104-107. H1, 2, 16, (37).
- 1.5 **Sphagnum papillosum** 1-6, 8-18, 20, 22, (24, 26), 27, 28, (29), 34-55, 57-112. H1-40.
- 1.6.a **Sphagnum palustre var. palustre** 1-6, (7), 8-32, 34-50, (51), 52-112. H1-40. C.
- 1.6.b **Sphagnum palustre var. centrale** 29, 30, 48, 49, 55, (60, 62, 71), 88, 89, 92, 97.
- 1.7 **Sphagnum medium** 2, 8, 9, 11, 13, (17, 22), 24, 27, 28, 41, 46, 48-50, 57, 63-67, (68), 69-74, 78-81, 83-85, 87, 89, (98, 99), 102, 106, 108-110, 112. H1, 10, 15, 16, 18-20, 23-25, 27, 40.
- 1.8 **Sphagnum divinum** (49), 50, 51, 57, 64, 67, 81, 85, 87, 97, 102. H9, 18-20, 22, 23, 25, 27, 30.
- 1.9 **Sphagnum squarrosum** 1-6, 8-15, (16), 17-22, (23), 24-32, 34-112. H1-3, (4), 5, 6, (7), 9, 10, 12-18, (19), 20-25, 27, (28), 29-40.
- 1.10 **Sphagnum teres** 3-5, 9, 11, (13, 14, 17, 25), 27, 28, (29), 35, (38), 39-50, 55, 57-59, 62-83, 85-90, (91), 92-98, (99), 100-112. H1, 2, 6, 7, 9, 15, 18, 20, 22, 23, 25, 26, (27), 28, 30-35, 37-39, (40).
- 1.11 **Sphagnum fimbriatum** 1-6, 8-31, 34-104, 106-112. H1, 2, 4-6, (7), 8-10, (13), 14, 16-32, (33), 35-40.
- 1.12 **Sphagnum girgensohnii** 3, (5), 30, (38), 39, 43, 44, 46-51, 53, 56-83, (84), 85-112. H1, 2, (3), 6, 18, 20, 21, 28-30, 35, 36, (37, 38), 39, 40.
- 1.13 **Sphagnum russowii** (5), 13, (17), 22, (26), 27, 29, 30, 34, 39-50, 54, 57-60, 62-70, (71), 72, 73, (74), 75-96, 98-101, 104-112. H2, (3), 6-8, 10, 12, 13, 18, 20, (21, 28), 29, 30, (33, 34), 35, 36, (37, 38), 39, (40).
- 1.14 **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), 26-29, (30), 33-36, (37), 38-40.

1.15 **Sphagnum warnstorffii** 42, 43, 46-50, 57, 60, (62), 64-67, 69, (70), 72, 73, (74), 75-81, 83, 87-90, 92-102, 104-110, 112. H7, 9, 10, (14), 15, 16, 20, 25, 27, 28, 32, 34, 35, 39, (40).

1.16 **Sphagnum capillifolium** 3-5, 11, 13-15, 34, 35, 39, 40, 43-50, 54-59, 62-70, 72, 75-78, 80, 83, 85, 87, 88, 92, 95, 96, 100, 104-106, 108-111. HI-4, 6-9, 11, 15, 17, 20-22, 26-30, 32, 35, 36, 40.

1.17 **Sphagnum rubellum** 1-6, 8-20, (21), 22, 24, 25, (26), 27, 28, 30, (32, 34), 35-112. HI-20, 22-40.

1.18 **Sphagnum fuscum** (13), 58, (65), 66-70, 72, 74, 76-81, 83, 87-90, 92-98, 104-106, 108-112. HI8, (22), 40.

1.19 **Sphagnum beothuk** 9, 46, 48, 66, 67, (69, 70, 73), 74, 87, 88, (89), 97, 98, 102, 104, 105, 107-110. H2, 9, (10), 14-16, (17), 18, (19), 22-25, (27), 28-30, (32), 33, 34, 36, 39, 40.

1.20.a **Sphagnum subnitens subsp. subnitens** 1-19, (20, 21), 22-32, 34-112. HI-40. C.

1.20.b **Sphagnum subnitens subsp. ferrugineum** 48, 60, 75, 86, 104, 105. HI, 2, 9, 15-18, 24-28, 33-35, 39, 40.

1.21 **Sphagnum skyense** 46, 97, 102-104, 110. H6-8, 16, 26, 27, 35.

1.22 **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), 83-86, (87), 88, (91), 92, 94, 96-98, (99), 100-110. HI, 2, (3, 15), 16, 18-20, 25, 27-29, (30), 33-36, 38-40.

1.23 **Sphagnum subsecundum** 3-5, 11, (12, 17), 27, 28, 35, 40, 42, 43, 45-50, 63, 67, 69, 70, 73-79, 81, (86), 87, 88, (89), 90, 95-97, (98), 99, (103), 104, 105, (106), 107, 108, 110. HI, 10, 16, 18, 20, 25, 27, 34, 35.

1.24 **Sphagnum inundatum** 1-9, 11-14, 16-18, (19-21), 22-28, 30, 34-55, 57-81, (82), 83, 85-90, (91), 92, 94-112. HI-4, 6-12, 15-18, (19), 20-22, 24-36, (37), 38-40.

1.25 **Sphagnum auriculatum** 1-25, 27-29, 34-112. HI-10, (11), 12-40. C.

1.26 **Sphagnum contortum** 3-5, 9, 11, (13, 14, 16), 27, 28, 40-52, (58, 59), 60, (61), 62, 64-67, 69, 70, (71), 72-81, 83, 85, 88-90, 92-100, (101), 102-112. HI-3, 6, 7, 9, 12, 15-18, (20), 21-23, 25-31, 33-35, (36, 37), 38, 39, (40).

1.27 **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. HI, 3, 9, 15, 16, 27, 31, (33), 34.

1.28 **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. HI-10, (11), 12-20, 22-40.

1.29 **Sphagnum cuspidatum** 1-6, 8-19, (20, 21), 22, 24, (25), 27, 28, 30, 35, 36, (37), 38-112. HI-10, (11, 12), 13-40.

- 1.30 **Sphagnum majus** 67, 88, (90), 95-98, 107-109. HI5.
- 1.31 **Sphagnum balticum** (46, 58), 63, 67, (72), 92, 96.
- 1.32 **Sphagnum pulchrum** 9, 11, 40, 46, 47, 49, 50, (58, 60), 67, 69, 70, (71), 73, 74, 77, (97), 98, 102, 104, 107, 108. HI, 2, 15-19, 23, 25, 27, 28, 33, (35), 36, (38, 39), 40.
- 1.33 **Sphagnum fallax** 1-6, 8-22, 24-31, (32), 34-50, (51), 52-112. HI-4, 6-40.
- 1.34 **Sphagnum flexuosum** 2-6, 8, 9, 11-18, 20-22, 24, 25, 27, 30, 34, 35, 38-49, (50), 51, 57-60, (61), 62-67, 69-77, 79-81, 83, 85, 86, 88-90, 92, 94-97, 100-105, 107-112. HI-3, 5, 9, 10, 16, 20, 25, 27, 40.
- 1.35 **Sphagnum angustifolium** (4), 5, 9, 11, 14, 16, 22, 25, 39-50, 55, 57-60, 63-67, 69, 70, 72, 73, 75-81, 83, 86-98, 100-102, 104-111. HI-3, 6, 9, 10, 15, 16, 18, 20, 23, 25-30, 32-34, 39, 40.
- 1.36 **Sphagnum obtusum** (59, 60).
- 1.37 **Sphagnum riparium** 22, 52, (58, 60, 61), 64, 67, (69), 70, 75, 77, 80, 88, 90, 92, 94, (95), 96, 97, 104-109, 112.
- 1.38 **Sphagnum lindbergii** 88, 90, 92, 94, 96, 97, 105, 106, 108, 112.
- 2.1 **Andreaea hookeri** 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. HI-3, 7, 8, 16, 20, (21), 27, (31), 35, 38-40.
- 2.2.a **Andreaea rupestris var. rupestris** (1), 2-4, 35, 40-50, 57, (59), 60, 62-90, (91), 92-100, 102-112. HI-4, (6), 7, 8, 11, 13, 16, 20, 21, 27, 28, (29, 30), 31, 34-36, (37), 38-40.
- 2.2.b **Andreaea rupestris var. papillosa** (48), 49, (70).
- 2.3 **Andreaea alpestris** 90, 92, 94, (96), 97, 106.
- 2.4 **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.
- 2.5 **Andreaea sinuosa** 92, 94, 96, 97, 105, 106.
- 2.6.a **Andreaea rothii subsp. rothii** 1-3, 40, (41), 42, 45, 46, 49, 60, 63, (64), 65, (69, 71), 72, (73), 76, 80, (82, 87, 88, 90), 92-94, 97, 103-105, (106), 107. HI, (2), 3, 4, 6-9, 12, (13), 16, 20, 21, 26-31, 34, 35, (36, 38), 39, 40.
- 2.6.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.
- 2.7 **Andreaea frigida** (65), 70, 92, 94, 96.

2.8 **Andreaea megistospora** 45, 46, (48, 66), 70, 72, (73, 74), 75, (78), 87, (88), 92, (96), 97, 98, (99, 100), 104-106, 108, 110. HI, 3, (4), 6, 16, 27, 34, (38).

2.9 **Andreaea blyttii** 92, 94, 96, 97, 105, 106.

2.10 **Andreaea nivalis** (88, 90), 92, 94, 96-98, 105-107.

3.1 **Oedipodium griffithianum** (42), 44, 46-50, (64), 65, (68), 69, 70, 72, (73), 75, (78, 80, 86), 87, 88, (89), 90, (91), 92, 96-98, (99), 100, 103, (104), 105. H(1), 20, 27, 35.

4.1 **Tetraphis pellucida** 1-108, 110. HI-8, 10-12, (13), 15, 16, 18, 20, 21, 23, 25-31, 33, (34), 35, 36, (37), 38-40.

5.1 **Tetrodontium brownianum** 3, (4), 14, 16, 34, 35, (36), 39-42, 44, 46-49, 57-60, 62-72, (73), 75-78, 80, 81, 83-88, (90, 91), 96-108, 110. HI, 2, (8), 16, 20, 21, 27, 29, 33, 35, 36, (39), 40.

5.2 **Tetrodontium repandum** (14, 62).

6.1 **Atrichum crispum** 3-5, 17, 39-50, 57-60, 63-65, (69), 70, (71). H20, 25, 29, 36.

6.2 **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, 103-105, (106), 110. HI, 3, 9, 16, 27, 28, 35, 38.

6.3 **Atrichum undulatum** 1-112, HI-40. C.

6.4 **Atrichum flavisetum** (17, 20, 37, 40, 59).

6.5 **Atrichum angustatum** 13-16, (17, 19), 33, (37, 44, 87). H(36, 38).

7.1 **Oligotrichum hercynicum** (1), 2-5, 39-50, 57-60, 62-83, (85), 86-112. HI-10, 13, 14, 16, 20, 21, 27, 28, (29), 30, (31), 33-36, 38-40.

8.1 **Polytrichastrum alpinum** 2-6, (34), 35, 36, (37), 39-50, 57, (59), 60, 62, (63), 64-83, (84), 85-112. HI-4, 6-9, 11-13, 16, 20, 21, 27-31, 33-40.

8.2 **Polytrichastrum sexangulare** 88, (89), 90, 92, 94, 96, 97, 105, 106.

9.1 **Pogonatum nanum** 1-5, (6, 7), 8-10, (11, 12), 13-17, (18, 19), 20, (21), 22, 23, (24-26), 27, (29, 30, 32, 33), 34-38, (39), 40-49, (50, 51), 52, (55, 57-64, 66), 67, 68, (69), 70, (71), 72, (73), 75, (76), 78, 79, 81, 83, (84-87), 88-90, (91), 92, 94-96, (97), 98, (101), 103, 104, 106, 108-110, 112. H(4, 5), 8, (10, 12), 20, (21, 22, 25), 27, (28), 31, (32, 33, 36-39), 40. C.

9.2 **Pogonatum aloides** 1-6, (7), 8-22, (23), 24-28, (29), 30, (32, 33), 34-52, (53), 54-112. HI-22, 24-40. C.

9.3 **Pogonatum urnigerum** 1-6, (7), 8, 9, (10, 11), 12, 13, (14), 15-17, 20, (21), 22, 24, (26), 27-29, (30, 32, 33), 34-37, (38), 39-52, (53, 54), 55-112. HI-18, 20-22, 25-40. (C).

10.1 **Polytrichum longisetum** (1), 3, (5-7), 8, 9, (10), 11-14, (15, 16), 17-29, (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, (91), 92, 94-98, 102, (103), 105-108, 110, (111, 112). H(1-3, 7, 8, 12-14), 15-20, 22-28, (29), 30, (32, 33, 36-40).

10.2 **Polytrichum formosum** 1-112, HI-40. C.

10.3 **Polytrichum commune** 1-6, (7), 8-112. HI-40. C.

10.4 **Polytrichum perigoniale** 1-3, (12), 13, 17, (18), 22, 27, (32), 35, (36-39), 41, 43-49, (51, 54), 56-58, (59), 62, (63), 65, 70, 72, 73, 75, 76, 81, (85, 88-90), 92, 95, 97, 98, 103-108, 110, (111). H7, 8, 12, 20, 21, 23, 28.

10.5 **Polytrichum piliferum** 1-6, (7), 8-112. HI-13, (14), 16, (17, 19), 20-22, 24-40. C.

10.6 **Polytrichum juniperinum** 1-112, HI-16, 18-40. C.

10.7 **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. HI, (6), 7, (8), 9, 10, 13-20, (21), 22-25, 27-40.

11.1 **Buxbaumia aphylla** (17, 22, 23, 27, 30), 37, (40), 43, (47, 48, 57-59, 63, 64, 66-68, 72, 73), 77, (78, 79), 80, (81, 82), 83, 84, (85-88), 89, (90, 91), 92, 95, 96, (98, 99). H(1).

11.2 **Buxbaumia viridis** 87, 89, (90), 92, 94-98, 106.

12.1 **Diphyscium foliosum** 1-5, 14, (23), 35, 36, (39), 40-50, 57, 58, (59), 60, (62-64), 65-67, (68), 69-81, 83, 86-92, (93), 94-108, 110, 112. HI, (2), 3, 6-8, 12, 13, 16, 20, 27-29, 31, 33, (34), 35, (36), 37-40.

13.1 **Timmia austriaca** 88, 89, (90).

13.2 **Timmia norvegica** (87), 88, (90), 96-98, 104. H28, 29.

13.3 **Timmia megapolitana** 27.

14.1 **Encalypta streptocarpa** 1-17, 20, 22-24, 26, 28-98, (99), 100-110, (111). HI-31, 33-40.

14.2 **Encalypta alpina** (49, 64), 88-90, (96), 97, 98, 104, 108. H28.

14.3 **Encalypta rhaptocarpa** (49), 62, 64, 65, (66), 68, 69, 82, (85), 87-90, 92, 94, (96), 97, (98), 104, 105, (107), 108-110, 112. H(9, 27, 28), 29, 40.

14.4 **Encalypta vulgaris** 1, (2), 3, (4), 5-12, (13-16), 17, (19), 20-24, (25), 26, 28-30, (31), 32-44, (45), 46, 47, 49-57, (59), 60, (61), 62-70, 75, (77, 79), 80-83, (84-86), 87-89, (90, 91), 92, 94, 95, (96, 100, 106), 107, 108, 110. H(2), 4, 5, (6), 7, 9, 11, 13, (14, 15, 18, 19, 21), 22, (23), 24, 25, (27, 32, 33, 35, 37, 39, 40).

14.5 **Encalypta pilifera** 39, 47, 51, 57, 65.

14.6 **Encalypta brevicolla** (90).

14.7 **Encalypta ciliata** 35, (36), 42-44, 48, 49, (59), 64-66, 68, (69), 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).

15.1 **Funaria hygrometrica** 1-112, H1-40. C.

16.1 **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.

16.2 **Entosthodon pulchellus** (2, 3), 6, 9, (13), 33, 34, 41, 45, 47, 49, 51, 52, (60), 94. H7.

16.3 **Entosthodon attenuatus** 1, 2, (3), 4, (5), 35, 42-50, 52, (58-60, 62-65), 66, (67, 68), 69-71, (72), 73-75, 77, 79, (83, 86-88, 91), 96-106, (107), 108-112. H1-3, (4-6), 7-9, 12, 16, 20, (21, 25), 26-29, 31, 33-35, (36), 38-40. C.

16.4 **Entosthodon fascicularis** 1-5, (6), 7-20, 22, (23), 24-27, (31, 32), 33-37, (38), 39-47, (48), 49-52, (55), 56, 57, (58, 59), 60, (61, 62), 64, (66, 67), 69, (71-73), 74, (75, 76, 81, 85, 90, 91). H(1), 2-6, 8, 11, 12, 17, (19), 20, (27, 36), 38, (39, 40). C.

16.5 **Entosthodon mouretii** (1), 6, (12, 32-34), 45, 46, (48).

16.6 **Entosthodon obtusus** 1-6, (7), 9-11, (12, 13), 14, (15), 16, 17, (20), 22, (27), 34-37, 40-52, 57, (58-61), 62-79, (80), 81, 83, (85), 86, 88-90, (91), 92, 93, 95-112. H1-5, (6), 7-10, (12), 13, (14, 15), 16, 20, (21), 25-29, (30, 31), 32-40. C.

17.1 **Physcomitrium pyriforme** 1-37, (38), 39-75, (76), 79-85, 88, (89-91), 93, (94), 97, 98, (99), 100-104, 106, 107, (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, 33, (34), 35, 36, (37), 38-40. C.

17.2 **Physcomitrium eurystomum** 20, 28.

17.3 **Physcomitrium sphaericum** (14, 17, 39), 42, 44, 57-59, 63, 64, (76), 83, (85), 86, 99. H39.

17.4 **Physcomitrium readeri** 4, 5, 14, 57, 64.

17.5 **Physcomitrium patens** 1-11, (12), 13-40, (41), 42, 44-48, 50-55, 57-61, (62), 63-65, (66), 67, (68), 70, 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.

18.1 **Diselium nudum** 2, (3), 14, 15, (32), 34, (37), 39, 40, 42, 43, 46, 47, 49, 50, 57-60, 62-65, (66, 67, 69, 70, 75), 77, (82, 88), 99, (106). H29, 30, 33.

19.1 **Catoscopium nigrum** 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).

20.1 **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), 101-112. H1, (9), 12, 16, 20, 27-29, 33-35, (39, 40).

20.2 **Distichium inclinatum** 1, 6, 41, 42, 44-46, 50, 52, 56-60, 62-64, (65, 66), 68, (69, 70, 72, 75), 82, (83), 85, 87-89, (90), 93, 94, 97, 98, 101-105, 107-112. H2, 16, 26-29, 34, 35, 39, 40.

21.1 **Flexitrichum flexicaule** 6, 8-13, (14), 17, 26, 32, 33, (35), 36, 39-42, 44, 45, 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).

21.2 **Flexitrichum gracile** 1, 3, 6, 8-14, 16, 17, 20, 22-24, (25), 26, 28, 29, 32-37, 39-47, (48), 49-54, 56, 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.

22.1 **Hymenoloma crispulum** 49, 57, (65), 69, 70, (72, 73, 75), 86-90, (91), 92, 96-98, (99, 103), 104-106, (107), 108, 110.

23.1 **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, 95-100, (101), 102-112. H1-3, 5, 8, 9, 12, (13), 16, 20, (21), 25-29, (30), 31, 34, 35, 38-40. C.

24.1 **Micromitrium tenerum** 4, 13, 14, (16, 17), 45, 47, 52.

25.1 **Dicranodontium uncinatum** (69, 70, 73), 75, (86), 87, (88, 92, 94), 96-98, (99), 102, 104-108, 110. H1, 2, 16, (20), 27.

25.2 **Dicranodontium asperulum** 49, 67, 69, (80, 86), 87, (88, 90), 92, 94, 96-98, (99), 102, 104-108. H29, 30, 33.

25.3 **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, (34), 35, 36, (39, 40).

25.4 **Dicranodontium subporodictyon** 97, 104, 105.

26.1 **Campylopus subulatus** 2, 4, 11, (14), 17, (36), 40-49, 57, 64, 66, (69), 70, 72, 73, 75, 78, (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).

26.2 **Campylopus schimperi** (86, 87), 88, (89, 90), 96-98, (99), 100, 102-106, 108, 110, (111), 112. H(1, 35).

26.3 **Campylopus gracilis** 46-49, (69), 70, 73, (86), 87, 88, (90), 96-98, (99), 100, (101), 103-108, 110, 111. H1-3, (4), 7, (8), 16, (20), 27, 28, (30, 34), 35, (36).

26.4 **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, 64-70, (71), 72-75, 78-83, 85-92, 94-112. H1-3, (4, 5), 6-11, 13, 15, 16, 18, 20, 23, 25, 27-31, 33-36, (37), 38-40. C.

26.5 **Campylopus pyriformis** 1-50, (51), 52-112. H1-30, (31), 32-40. C.

26.6 **Campylopus flexuosus** 1-112, H1-40. C.

26.7 **Campylopus setifolius** 46, 48, 49, (69), 70, 73, 97, 98, 100, 102-105, 108, 110. HI-3, 7, (15), 16, (20), 27, 28, 31, 34, 35, 38.

26.8 **Campylopus shawii** (97), 103-105, 108, 110. HI, (2), 3, (27).

26.9 **Campylopus atrovirens** 1-4, 40-50, 52, (57), 60, (62), 64-66, (67), 69-79, (85), 86-90, 92-112. HI-3, (4), 6-9, 12, (14), 15-17, 20, (21, 24), 25-29, (30), 31, 33-40.

26.10 **Campylopus pilifer** 1-3, 45, 48, 49, 102, (104). HI-3, 16, 20, 27. C.

26.11 **Campylopus introflexus** 1-112, HI-40. C.

26.12 **Campylopus brevipilus** 1-4, (5-7), 8-14, (15), 17, 22, (24, 25, 27, 28, 34), 41, 45, 46, 48, 49, 52, (58, 60, 61), 62, (67, 69), 70, (71-73, 81, 87), 88, (89-92), 93, 96-98, 100-112. HI-3, (5, 7, 8), 9, (10, 12, 15), 16-20, (21), 25-29, (31), 33-35, (38), 39. C.

27.1 **Leucobryum glaucum sensu Ottley et al.** (1), 2, (3-5), 7, (9), 11, (12), 13, 14, 16, (17), 18, 21, 24, (27), 37, (42), 45, 46, 48, (49), 56, 57, 60, 62, 65, (68, 69), 102, 104, 105.

27.2 **Leucobryum juniperoideum sensu Ottley et al.** 2-4, (9), 14, 35, 40-42, 44-49, 57, 64, 86, 97, 98, 101-103. H6, 13, 16.

27.3 **Leucobryum albidum** 1-3, 5, 6, 8-16, 18-20, (21), 22-25, 28, 30, 39, 41, 45, 46, 48, 57, 64, 70. H2, 11. C.

28.1 **Amphidium lapponicum** 42-44, 46-49, (64), 65, (66), 68-70, 72, (73), 75, 78, 86-90, 92, 94, 96-98, (99), 103-106, (107), 108. HI, 27.

28.2 **Amphidium mougeotii** 1-5, 35, 36, (37), 40-50, 52, 57-60, 62-112. HI-4, 6-11, (13, 14), 16, 20, (21, 26), 27-40.

29.1 **Dichodontium pellucidum** 1-6, 8-17, 21, 22, (27, 30), 32, (33), 34-54, (55), 56-112. HI-16, (18), 20-22, 24-40.

29.2 **Dichodontium flavescens** 1-3, 35, (37, 40), 41, 42, 44, 46-48, (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. HI, 3, 6, 8, 10, 11, 16, 18, 20, 21, 27-29, 31, 35, 39, 40.

29.3 **Dichodontium palustre** 1-5, (6, 14), 34-37, 39-52, 57-60, 62-112. HI-8, (9), 10, 12, (13), 14-16, 18, 20, 21, 25-40.

30.1 **Aongstroemia longipes** 88, 89, 95, 96, 98, 99, 101, 102, 106-108. H27.

31.1 **Dicranella schreberiana** 1-70, (71), 72-95, 97-99, 101, 102, 104-109, (110), 111, 112. HI-40. C.

31.2 **Dicranella grevilleana** 88, 89, 92, 94, 97, 98, (106), 108. H28, 29.

31.3 **Dicranella crispa** (1), 2, (3, 13), 14, (15, 16), 17, (21, 25, 38, 39), 40, 43, 47, 48, 54, 55, (57, 58), 59, (62-66, 68-72, 76, 81, 85, 86), 88, (89-91), 94, 95, (97, 106, 107), 109, (111), 112. HI, (2, 5, 16), 28, (29), 34, (38-40).

31.4 **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), 72, 73, 75, 76, 78, (80), 81-83, 85-90, (91), 92, (93), 94-98, (99), 101, 104-106, 108-110, (111), 112. HI, (3), 5, (6), 7, 8, 10, (12), 13, 16, 20, 27, 34, 35, (36, 38, 39), 40.

31.5 **Dicranella varia** 1-90, (91), 92-112. HI-36, (37), 38-40. C.

31.6 **Dicranella howei** 1-9, 11-14, 20, 22-24, 28, 29, 31, 33-35, 39, 41, 42, 45, 46, 57, 63, 111. HI9. C.

31.7 **Dicranella staphylina** 1-99, 101-109, 111, 112. H2-40. C.

31.8 **Dicranella rufescens** 1-9, 11-18, (19), 20, 22, (23, 25, 27), 32, (33), 34-37, (38), 39-53, 55, 57-60, (61), 62-84, (85), 86-112. HI-6, (7), 8-10, 12, (14), 15, 16, 18, 20, (21), 26-30, (31), 32-40. (C).

31.9 **Dicranella cerviculata** (1-4), 5, (6), 8-11, (12), 13, (14), 15-18, (19), 20-22, (23, 24), 25, (26), 27, 28, (29), 30, (31), 32, (33), 34, (35), 37, (38), 39, 40, (42, 43), 44, (45), 46, 48-50, (52), 54, (55), 56-64, (65, 66), 67-70, 72-74, (76), 77, 78, 81-85, (86, 88-90, 92, 96, 97), 98, (99), 102, 104, (105), 107, (108, 111), 112. H(1), 2, (3-6), 13, (14, 16, 17), 18, 22, 23, (25, 26), 27, (28-34), 35, 36, (37-39), 40.

31.10 **Dicranella heteromalla** 1-112, HI-40. C.

32.1 **Fissidens viridulus** 1-72, 79-83, (85, 86), 87, 90, 94, 97, 99-101, 103, 104, (105). HI-3, 5-13, 15, 19-24, 26, 27, (28), 29, 31, (32), 33-35, (36, 37, 39). C.

32.2 **Fissidens crispus** 1-4, 6, (8), 9-12, 14, 17, 20, 22, 24, 34, (35), 39-42, 44-50, 52, 57, 58, (59), 60, 61, (69), 70, (71), 73, 75, (83, 84), 98, 101, 102, (103), 104. H(1), 2, (3, 15, 21), 27. C.

32.3 **Fissidens pusillus** 1-6, (7), 8-17, 19, (20), 22, (23), 24-27, 30, 32-37, (38), 39-42, (43), 44-52, 54, 56-73, (74), 75-78, (79), 80-90, (91), 92, 93, 96-98, (99), 100-105, (106, 107), 108, (109). HI-7, (8), 9, 11, 13, (15, 16), 18-20, 22, 23, 26-30, 32-36, (38), 39.

32.4 **Fissidens gracilifolius** 3, 5-18, 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, (7), 8, 9, 11, 14, 23, 24, 28-30, 33.

32.5 **Fissidens incurvus** 1-42, (43), 44-47, 49-65, (66), 67-71, 75, (77), 81-84, (85), 90, (91, 100). H2, 3, 5, 7-9, 11, 12, 15, 18, (21, 24), 25, 26, (29, 31), 32, 33, (37, 38), 39, 40. (C).

32.6.a **Fissidens bryoides var. bryoides** 1-112, HI-13, (14), 15-17, 19-25, 27-40. C.

32.6.b **Fissidens bryoides var. caespitans** 1-5, (6), 11, 35, 41-50, 57, 59, 63, (64, 68), 69-71, 73, (86), 87, 88, 92, 96-105, 107-110, 112. HI-3, (5), 6, (7), 12, (16), 20, 27, 31, (34), 35, (38). (C).

- 32.7 **Fissidens rivularis** 1-6, 9, 14, 34-37, 40-46, 48, 57, 73, 86, 101. H2, 4, 6, 9, 10. (C).
- 32.8 **Fissidens monguillonii** 2, 3, (4), 5, 44, 45, 49, 52, 73. H3, 25, 29, 30, (33), 40.
- 32.9 **Fissidens crassipes** 1-9, (10), 11-44, 46, 47, 50-55, 57-70, (71), 72, 73, 75, 77, 78, 81-85, (86, 91), 93. H2, 3, 5-8, (9), 10-12, (13), 14, 15, (16, 17), 18-22, 25, (28), 29-31, 33, 34, 36, (37), 38-40.
- 32.10 **Fissidens rufulus** 35-37, 39-44, 60, 62, 64-66, 68-70, (72), 77, 79-81, 88-90. H(6), 20, 33, 34, (38).
- 32.11 **Fissidens exilis** 1-6, (7), 8-50, (51), 52-70, (71), 72, 75, (77), 78-84, 86, (88, 89), 90, 99, 101, 103, 111. H8, 11, 12, (19, 21), 22, 32, (38-40). (C).
- 32.12 **Fissidens celticus** 1-6, 10, 11, 13, 14, (15), 16, 17, 34, 35, 37, 39-50, (52), 57, 58, 60, 64, 65, 69-75, 86, 97-99, 101-104. H1-5, (7), 8-10, 12, 16, 25, 27, 36-38, 40.
- 32.13 **Fissidens curvatus** 1, 2, (3, 33), 41, 43, 44, (45), 48, 49. H(1).
- 32.14 **Fissidens osmundoides** 1-5, 11, 35-37, 40-52, 57-60, 62-80, (81), 82, 83, (85), 86-90, 92, 94-112. H1-3, (4), 6-9, (10, 12), 14-16, (18, 19), 20, (21, 24, 25), 27-29, (30), 31, (32), 33-36, (37), 38-40.
- 32.15 **Fissidens taxifolius** 1-112, H1-40. C.
- 32.16 **Fissidens dubius** 1-26, (27), 28-112. H1-23, 25-40. C.
- 32.17 **Fissidens adianthoides** 1-20, (21), 22-112. H1-40. C.
- 32.18 **Fissidens serrulatus** 1, 3, (48). H1, 3, 27.
- 32.19 **Fissidens polyphyllus** 1-3, 5, 47-49, (98), 101, 102. H1-3, (4, 6), 20, (28).
- 32.20 **Fissidens fontanus** 2, 4-8, 17-24, 29-40, 45, 47, 50, 55-59, 62-64. H1, 2, 4, 5, 16, 21, 29, 30, 37.
- 33.1 **Dicranoloma menziesii** H1†.
- 34.1 **Dicranum polysetum** 11-13, 17, 22, 25-28, 30, (31, 34, 38), 40, 52, 54, 55, 57, (58), 59, (61), 62, 63, (64), 69, 70, (73), 80, (85, 87-90), 92, 95, 96, (106).
- 34.2 **Dicranum bonjeanii** 1-6, (7), 8-15, (16), 17-28, (30), 32-37, (38), 39-52, 54, 55, 57-90, (91), 92-112. H2, 3, (7), 8-12, 14-20, 22, 23, 25-28, (29), 31-33, (34), 35, (36-38), 39, (40). (C).
- 34.3 **Dicranum leioneuron** 40, 42, 46, 47, 67, 70, (88, 92).
- 34.4 **Dicranum scoparium** 1-112, H1-40. C.

34.5 **Dicranum spadiceum** 92, 97, 108.

34.6 **Dicranum majus** 1-18, (19), 20-28, 30, (32), 33-37, (38), 39-52, (53), 54-112. HI-9, (10, 11), 12, (13), 14, 16, 18, 20-22, 25-31, 33-40. C.

34.7 **Dicranum spurium** (3, 5), 8, 9, 11-13, (14), 17, (22, 27, 28, 38), 54, (61-64), 66, (68, 69, 72), 75, (85, 87, 88), 89-92, 95, 96.

34.8 **Dicranum undulatum** 40, (46), 50, (58, 59, 68), 70, (80), 81, 88, 89, 92, 95, 96, 109. HI8.

34.9 **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. HI-4, 6-10, 12, 13, 16, 20, (21), 25, (26), 27-29, (30), 33-35, (36), 38, (39, 40).

34.10 **Dicranum flexicaule** (66, 68), 88-90, 92, (94), 96-98, 105-108, (109, 110), 112.

34.11 **Dicranum elongatum** (68, 90), 92, (96, 97), 104, (105, 109, 112).

34.12 **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, (89, 90, 92), 97-105, 108, 110, (111), 112. HI-3, (4, 5), 6, (7, 8), 9, 16, 20, 25-30, 33-36, (38). C.

34.13 **Dicranum tauricum** 3, 6-9, 11-41, 47, 50, 51, 53-70, 75-78, 81-88, 94-96, 99, 106.

34.14 **Dicranum montanum** 6, (7), 8, 10-32, 34-44, 46-48, 50, 53-58, 60, 62-67, (68), 69, 70, 77, 80, 81, 83, 88-90, 94, (95, 96), 99, 107.

34.15 **Dicranum flagellare** (3), 12-17, (19), 20, 21, (22, 23), 30, (38), 39, 41, 42, 47, 54, 64, (73).

35.1 **Paraleucobryum longifolium** 88, 90, 92, 94, 96, 107, 108.

36.1 **Rhabdoweisia fugax** 1-5, 35, (39, 40), 41-50, (63, 64), 65, 66, 68-70, (71), 72, 73, (76), 80, 82, (85), 87-90, (91), 92, 93, 96-98, (99), 100, (101), 103-108, 112. H(1, 6, 7, 16), 20, (21, 31), 35, (38-40).

36.2 **Rhabdoweisia crispata** 1-4, 35, 40-50, 57, (59), 60, 64, 65, (66), 68-70, (71), 72, 73, (74), 75-79, 83-90, (91, 92), 93, 96-108, (109), 110, 112. HI, (2), 3, 5-7, (8), 10, (12, 13), 16, 20, 27-29, (31, 33, 34), 35, (36, 38-40).

36.3 **Rhabdoweisia crenulata** 41-43, (44), 46-50, 58, 64, 66, 68-70, (72-74), 75, 76, 78, (79, 80), 86-88, 97-105, 108, 110. HI-4, 6, 7, 16, 20, (26), 27-29, 33, 35, (36), 38, 40.

37.1 **Cynodontium bruntonii** 1-6, (16), 34-37, 40-50, 52, 55, 57, (58, 59, 62, 63), 64, 65, (66), 67-72, (73), 74, 75, (76-78), 80-83, (84), 85-90, (91), 92, 95-99, (100), 105-109. HI, 4, (5), 6-8, (12, 13), 20, 29, 30, 35, (36, 39). C.

37.2 **Cynodontium strumiferum** 89, 90, 92, 93, 95, 96, (104), 106.

- 37.3 **Cynodontium jeneri** 45, 48, 49, 68-70, 72, (73), 75, 76, 78, 80-82, 86-93, 95-98, 101, 104, 105, 107, 108, 112. H35.
- 37.4 **Cynodontium polycarpon** 48, (68, 70, 90), 92, (96).
- 37.5 **Cynodontium fallax** (90).
- 37.6 **Cynodontium tenellum** 45, (81, 87-89), 90, (91), 92, (95), 96, 108.
- 38.1 **Oncophorus virens** 69, 70, 86, (87), 88-90, 92, 96-98, (107), 108.
- 38.2 **Oncophorus wahlenbergii** 88, (89, 90), 92, 97, 98, (99), 104, 105, (106).
- 38.3 **Oncophorus integerrimus** 88, 89, 92, 97, (108).
- 39.1 **Dicranoweisia cirrata** 1-110, 112. H1-9, 11-13, 20-22, 25, 28, 30-32, 34-36, (37), 38, 39, (40). C.
- 40.1 **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.
- 40.2 **Arctoa anderssonii** 108.
- 41.1 **Kiaeria falcata** 49, (65, 66, 69, 70, 72, 78), 86-90, 92, 94, 96-99, 104-107, (108, 110). H35.
- 41.2 **Kiaeria blyttii** 4, 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.
- 41.3 **Kiaeria starkei** (65), 69, 78, 86-90, 92, 94, 96-98, (103), 104-107, (108).
- 41.4 **Kiaeria glacialis** 88, (90), 92, 94, 96-98, 105-108.
- 42.1 **Glyphomitrium daviesii** (2, 3), 45, 46, 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.
- 43.1 **Schistostega pennata** 1-6, 9, 12, (13), 17, 28, (32), 34-37, (38), 39-50, 55-59, 62-65, 68, (69), 70, (76, 85), 86, (88, 97), 112. (C).
- 44.1 **Bruchia vogesiaca** 2.
- 45.1 **Trematodon ambiguus** (88).
- 46.1 **Pleuridium acuminatum** 1-60, (61), 62-70, (71), 72, (73), 74-84, (85), 86-88, (89), 90-94, (95), 96-98, (99), 100-104, (105), 106, 107, 110-112. H1, 3, (4), 5, 7-12, (14), 16, 17, 19, 21, 22, (25), 27-29, (30), 31, (32), 33, (34), 35, (36, 37), 38, (39), 40. C.
- 46.2 **Pleuridium subulatum** 1-6, (7), 8-18, (19), 20-31, (32), 33-47, (48), 49-54, (55), 56-70, (71), 72, (73), 74-84, (85), 88, 89, (90, 91), 92-96, 98-100, (101), 102-106, 108, 109, 111. H(1), 2-7, 9, 11-13, 21-23, 27, 28, 31, 32, 36, 38, (39), 40. C.

- 47.1 **Pseudephemerum nitidum** 1-84, (85), 86, (87), 89, 90, (91), 92-105, (106), 107-109, 111, 112. H1-10, 12, 13, (15), 16, 17, 19-22, 25-27, 29-33, (34), 35, 36, (37), 38-40. C.
- 48.1 **Trichodon cylindricus** 1-112, H1-8, 10-14, (15), 16-20, 22, 23, 26-40. C.
- 49.1 **Ditrichum pusillum** 2-4, 13, (14, 16), 17, 22, 37, 41, 44, 45, (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).
- 49.2 **Ditrichum cornubicum** (1), 2. H3.
- 49.3 **Ditrichum lineare** 42-49, 65, 69, 73, 88-94, 96-98, 100, 103, 104, 110. H(28, 39).
- 49.4 **Ditrichum plumbicola** 1, 6, 44, 46, 47, 49, 50, 64, 65, 67, 69, 71, 77, 88. H10, 20, 21.
- 49.5 **Ditrichum heteromallum** 1-6, 9-17, (19, 24, 27, 32), 34-50, (51), 52, 55, 57-60, (61), 62-112. H1-16, 18, 20, 21, 25-30, (31, 32), 33-36, (37), 38-40.
- 49.6 **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).
- 49.7 **Ditrichum pallidum** 13.
- 49.8 **Ditrichum subulatum** 1, (2), 3, (15), 44, 45.
- 50.1 **Ceratodon purpureus** 1-112, H1-40. C.
- 50.2 **Ceratodon conicus** (22), 23, 24, 29, 32, (33), 34, (38, 53).
- 51.1 **Cheilothela chloropus** 3, 6.
- 52.1 **Scopelophila cataractae** 1-4, 41, 44, 46, 49, 71. H3, 12.
- 53.1 **Eucladium verticillatum** 1-17, 19, 20, 22-29, (30), 32-47, (48), 49-54, (55), 56-91, 93-95, 97-112. H1-12, (13), 14, 16-25, (26), 27-31, 33-36, (37), 38-40. C.
- 54.1.a **Weissia controversa var. controversa** 1-112, H1-13, (14, 15), 16-29, (30), 31-36, (37), 38-40. C.
- 54.1.b **Weissia controversa var. crispata** 1, (3), 6, 8, 9, (10), 11, 13, 14, 17, 24, (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.
- 54.1.c **Weissia controversa var. densifolia** 1-5, (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.
- 54.2 **Weissia wimmeriana** (96).

54.3 **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.

54.4 **Weissia rutilans** 1-3, (4-7), 9, 10, (11), 12-14, (15), 16, 17, (18-20), 22, (23), 34-37, (38), 39-50, 52, 57, 58, (59), 60, (61, 62), 63, (64), 65, 66, (67-69, 71), 72, 73, 75, (77), 78, 79, 81-85, 88, 90, (92), 96, (97), 98, 101, 104, (105, 107, 108), 109, 111. H8, 9, (35, 38), 39, 40. (C).

54.5 **Weissia condensa** 3, 6, 9-11, 13-15, (16, 17), 33, (81). H5.

54.6.a **Weissia brachycarpa var. brachycarpa** 1, 2, (3), 5, (6), 8, 9, (10), 11, 13, 14, (15), 20-22, (23), 24, 31, (32), 33, 36, 37, (38), 40, 44-46, 50, 53, 54, 57, 59, (61), 62-64, 66, 76, 77, 81-85, 88, (98), 109. H12, 33.

54.6.b **Weissia brachycarpa var. obliqua** 1-4, (5), 6-20, (21), 22-30, 32-37, (38), 39-41, 43-47, (48), 49, 51-70, (71), 72-75, (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), 22-25, (26), 27, 28, (31, 34), 35, (37), 38-40. C.

54.7 **Weissia squarrosa** (3), 5, 6, 10, (13-17), 22, 24, 29, 31, (32), 33-35, 37, (38), 39, 40, 44, 45, 53, (55), 56, (57-60, 62, 64, 69, 85).

54.8 **Weissia rostellata** 3-5, 9, 13, 14, (15, 17, 22, 24, 29), 35-37, (38), 40, 44-47, 52, (55), 56-58, 61, 63, 64, 67, 83. H16, 26, 29, 30, 39, 40.

54.9 **Weissia wilsonii** 1-3, 6, 8, 9, (13, 14, 17, 22), 23, 29, 35, 41, 45, 46, 49, 57, (58).

54.10 **Weissia sterilis** (3), 7-15, (16), 17, 20, 22, 24, 29, (30), 33, (37).

54.11 **Weissia levieri** 6, 41, 47.

54.12 **Weissia longifolia** 1, 2, (3), 5, 7, 8, 13, 14, (16), 17-27, 29-37, (38), 41, 44, 45, 47, 50, 52-57, 62, 65, 66, 81, 82, 99.

54.13 **Weissia 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, (58), 61, (62), 63, (64, 65), 66, (67). H(11), 19, (21), 23, (35, 38, 39).

55.1 **Trichostomum brachydontium** 1-6, 8-16, (17), 20, 26, 29, 32-37, 39-53, (54, 55), 56-79, (80), 81, 82, 84-112. H1-12, (14), 16, 17, 21, 23-31, 33-36, 38-40. C.

55.2 **Trichostomum crispulum** 1-17, 20, 22-24, 26, 28-30, 32-37, (38), 39-54, (55), 56-76, 79-83, 85-105, (106), 107-112. H1-11, (12), 14-36, (37), 38-40. C.

56.1 **Pottiopsis caespitosa** (1), 6-14, (15, 16), 17, 22-24, 29, (36), 40, 45, 49.

57.1 **Tortella inflexa** 6-17, 20, 22-24, 29, (30), 32-34, 61.

57.2 **Tortella nitida** 1-9, 13, 14, (20), 24†, 34-36, 39, 41-46, 48-52, 55†, 57, 60, (64), 69, (71, 73), 75, 86-88, 98, 100-103, 105. H(1), 2, 3, 5, 7-9, (10), 15-18, (22), 23, 24, 27, 28, 33, 35. C.

- 57.3 **Tortella flavovirens** 1-6, 9-11, 13-15, 18, 19, 25, 27, 28, (34), 35, 41, 44-49, (50), 52, 54, 58-62, 66, (67), 68-71, 73-75, (76), 81-85, 89-91, 93-95, 97, 98, 100-112. HI-6, 8, 9, 11, 12, 16, (17), 20-22, 27, 28, 31, 34, 35, (37), 38-40. C.
- 57.4 **Tortella squarrosa** 1-11, 13-17, (22, 23), 26, 28, 33, 34, (36), 39-41, 44, 45, 47, 49-52, 56, 57, 60, 64, 69. H9, 12, (20), 21, 22, 31. C.
- 57.5 **Tortella tortuosa** 2-14, 16, 17, 20, 22-25, 29, (30), 32-37, (38), 39-54, (55), 56-60, 62-83, (85), 86-112. HI-31, (32), 33-40. C.
- 57.6 **Tortella fragilis** (85), 88, (90), 94, (107), 108-110.
- 57.7 **Tortella pseudofragilis** 88, 89.
- 57.8 **Tortella inclinata** 17, (23, 28), 29, 33, 41, 44, 45, 48, 52, (53, 55), 59, 60, (65, 66), 69-71, 75, 82, 84, (85), 91, 95, 100, 102, (106), 107-109. H27, 38.
- 57.9 **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.
- 57.10 **Tortella fasciculata** 33, 35-37, 40-50, 52, 57, 63-65, 69, 70, 72-76, 85-89, 92, 94, 96-98, 100, 103-105, 109, 112. HI, 3, 6-9, 16, 29.
- 58.1.a **Chionoloma tenuirostre var. tenuirostre** 3, 35, 44, 46, 48, 49, 52, 57, 64, 65, 72, 73, 77, 80, 81, 87, 96, 104. H20.
- 58.1.b **Chionoloma tenuirostre var. holtii** 2, 3, 14, 42, 44, 46-51, 57, 59, 63-65, 69, 71-73, 78, 80, 88, 96-98, 100, 102, 105, 110. HI, 2, 8, 21, 27, 36, 38.
- 58.2 **Chionoloma cylindrotheca** 4, 44, 46-49, 69, 70, 72, 75, 76, 78, 87, 97, 98, 100, 102, 104-106, 108, 110. HI, 3, 6, 20, 27.
- 58.3 **Chionoloma hibernicum** 46, 48, 49, 72, 73, 75, (86), 87-89, 96-98, (99), 100, 101, 103-106, 108, 110. HI-3, (5), 16, 27, 28, 35, 38.
- 58.4 **Chionoloma recurvifolium** 48, 49, (69, 70, 86), 87, (88), 92, 94, 96-98, (99), 104-108, 110. HI-3, 16, 27, (35).
- 59.1.a **Hymenostylium recurvirostrum var. recurvirostrum** 1, 6, 40, (41), 42-46, 48-50, (51), 52, (57), 59, 60, 62, 64-72, 75, (76, 77), 78, 80-82, 84, (85), 86-91, 94-112. H(2), 3, (4), 9, 15, 16, 20, 21, 26-30, 33-35, (36, 38), 39.
- 59.1.b **Hymenostylium recurvirostrum var. insigne** 87, 88, 97, 98, 103-105, 108. H28, 29.
- 60.1 **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. HI-3, 6-9, 16, (20), 27-29, (31), 33-36, (38), 39.

- 61.1 **Gyroweisia tenuis** 1-50, (51), 52-70, (71), 72, 73, (74), 75-78, 80-91, 93-98, (99-102), 104, 106-108, 110, 112. H(1), 3, 4, (5, 6), 8-11, 14-16, 19, 20, (21), 25-27, (28), 29-33, (34), 35-40.
- 61.2 **Gyroweisia reflexa** (38).
- 62.1 **Gymnostomum viridulum** 1-4, 6, 9-12, 14, 21, 33-36, 41, 42, 44, 45, 48, 49, 63, 64. H1-8, 11, 12, 14, 19, 25, 32, 35. C.
- 62.2 **Gymnostomum calcareum** 3, 6, 9, 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.
- 62.3 **Gymnostomum aeruginosum** 1-4, (5), 6, 13, 35, 36, 39-50, 52, 57, (58), 59, 60, 62-112. H1-3, (6), 7-9, 16, 17, 20, (21), 22, 23, 25-31, 33-35, (36, 37), 38-40.
- 63.1 **Molendoa warburgii** 48, 49, 86-90, (91), 92, 96-101, 103-108, 110, 112. H27, 34.
- 64.1 **Leptobarbula berica** 1, 6, 8-19, 21, 24-29, 33-35, 40, 44, 45, 55, 61-64. H11, 16.
- 65.1 **Ephemerum recurvifolium** (3), 5-9, (10), 11-15, (16), 17, 19, 20, 22-37, (38), 40, 41, 45, 47, 49, 53-55, 57, (66). H20.
- 65.2.a **Ephemerum crassinervium subsp. sessile** 1, 2, (3), 4, 5, (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.
- 65.2.b **Ephemerum crassinervium subsp. rutheanum** 35, 44. H9, 18, 25-27, 29, 30.
- 65.3 **Ephemerum cohaerens** (13), 16, 20, 29, 32, 37, 45, 47, (55). H(15), 17, 19, 24, 29.
- 65.4 **Ephemerum spinulosum** H26, 39.
- 65.5 **Ephemerum stoloniferum** 1-6, 10, (11), 12-14, 17, 19, 20, 22, (23), 24, 35-37, 40-49, 52, 55, 57-59, 62-64, 66, 67, (68), 69, 70, 73, 75, (76), 77-83, (84, 86), 87, 88, (90), 92, 96, (97-101), 103, (104), 105, 109, 110, 112. H(1), 3, 12, (13), 20, 22, 24, 26, 27, 29, 30, (34), 35, 38.
- 65.6 **Ephemerum serratum** 1-6, (7), 8-60, (61), 62-68, 70, 72, 73, (74), 75-83, 85-87, 89, (90), 91-95, 98, (99), 101, (106), 107-112. H3-8, 10-13, (14), 19-23, 26, 27, 31-33, (34, 36, 37), 38-40.
- 66.1 **Dialytrichia mucronata** 1-9, (10), 11-14, (15), 16-26, 28-47, 52, (54), 55, 57, 59, 64, 66. H9, 10.
- 66.2 **Dialytrichia saxicola** 2, 3, 6-9, 11, 17, 21-24, 33, 34, (49).
- 67.1 **Pseudocrossidium hornschruchianum** 1-99, (100), 101-112. H1-13, 15-29, (30), 31-36, (37), 38-40. C.

67.2 **Pseudocrossidium revolutum** 1-70, (71), 72-78, (79), 80-90, (91), 92-98, (99), 100-104, (106), 108-112. HI-13, (14), 15-40. C.

68.1 **Bryoerythrophyllum recurvirostrum** 1-112, HI-40. C.

68.2 **Bryoerythrophyllum ferruginascens** 1-7, 34, 35, (36), 39-50, 52, 57-60, 64-75, 77, 78, 80, 81, 83, 86-92, 94, 96-98, (99, 100), 101-106, 108, 110, 111. HI, 2, 7-10, 13, 14, 16, 20, 25-29, 31, 32, 34-36, 39, 40.

68.3 **Bryoerythrophyllum caledonicum** 88, 97, 98, 104.

68.3A **Bryoerythrophyllum campylocarpum** 3, 45, 46, 48-50, 79, 104. H5, 39.

69.1 **Leptodontium flexifolium** 1-6, (11), 12, (13, 14, 16), 17, 20-22, (24), 26, 27, (28, 30, 32), 34, 35, (36), 37, (38), 39-52, 55, 57-60, 62-70, (71), 72-84, 86-91, (92), 93, 95, (96), 97-100, (101), 102-104, (105), 106, 108, 110. HI, 3, 6, 8, 10, (12), 13, 20, (21), 27-29, (30, 33), 37, (39).

69.2 **Leptodontium gemmascens** 1, 3-5, 7, 9, (10, 11), 13, 14, (16, 17), 20, 21, (23, 24), 25, 26, (33), 34, (36), 41, 63.

69.3 **Leptodontium proliferum** 59.

70.1.a **Streblotrichum convolutum var. convolutum** 1-112, HI-13, 15-40. C.

70.1.b **Streblotrichum convolutum var. commutatum** 1-77, 81, 83-88, 90, 91, 93, 96, 98, 100, (101), 102-104, (106), 110-112. HI-13, 15-25, 27-29, 31-40. C.

71.1 **Barbula unguiculata** 1-112, HI-40. C.

72.1 **Didymodon sinuosus** 1-66, (67, 68), 69-72, 75-77, 79-85, 88, 93, 97, 98, (103), 105, 108, 109, 112. HI-13, 15, (16), 18-29, (30-32), 33, (35-38), 39. C.

72.2 **Didymodon ferrugineus** 1, 2, (3), 4, 6, 8, (12), 13, (14, 15), 16, 17, (20), 22, (23, 24, 27), 28, (30), 32-37, 39-48, 50, (51), 52, 53, 56-60, 62-70, (72), 75, 77, 80, 82, 83, 87-90, 92, 94, 95, 97, 98, (101), 102-105, (106, 107), 108, (109), 110, 111. H(2, 3), 4, 5, 7-13, (15), 16-20, (21), 22-31, 33-36, (38), 39, 40.

72.3 **Didymodon maximus** H28, 29.

72.4 **Didymodon fallax** 1-73, 75-112. HI-40. C.

72.5 **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), 98-101, (102), 103-109, (110), 111, 112. H(1), 4, 5, (6, 7, 9), 10, (11, 14), 15, 18, (19), 20, 21, 23, (25), 27-30, 33, 35, (36, 38), 39, (40).

72.6 **Didymodon luridus** 1-70, (71), 72, 74-78, 80-85, 91, 93, (94), 100, 111, 112. H(1), 2-7, (8), 9-12, (13), 14, 16-27, 29, 31, 33, (34, 35), 38, (39). C.

72.7.a **Didymodon tophaceus subsp. tophaceus** 1-72, (73), 74-85, (86), 87-91, 93-98, (99), 100-106, (107), 108-112. H1-12, (14), 15, 16, 18-25, (26), 27-31, 33-40. C.

72.7.b **Didymodon tophaceus subsp. sicculus** 4.

72.8 **Didymodon nicholsonii** 1-60, 62-71, 76, 77, (80), 81, 94, (100), 111. H2-13, 15-17, 19-21, 23, 26-31, 33, 39. C.

72.9 **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, 3, (4), 5, (6), 7, 9, 11, 12, (14), 16, 17, (18), 19-21, 23, (24), 26, 27, (28), 33, 35, 36, (37-39), 40. C.

72.10 **Didymodon insulanus** 1-112, H1-40. C.

72.11 **Didymodon umbrosus** 1, 6, 8-15, 17-33, 35, 39-41, 45, 46, 53, 54, 56, 57, 59, 62, 64. H11, 21.

72.12 **Didymodon australasiae** 1, 4, 24, 32, 35, 44, 57, 71.

72.13 **Didymodon rigidulus** 1-98, (99), 100-112. H1-40. C.

72.14 **Didymodon glaucus** 7, (13, 65).

72.15 **Didymodon acutus sensu Kučera** 1, 6, 10, 11, 44, 45.

72.16 **Didymodon icmadophilus sensu Kučera** 1-3, (4), 6, (7), 8-10, 12-14, 16, 17, 20, 22-24, (25), 29-31, 33, 34, 36, 37, 39-42, 44, 45, 47, 49, 50, 52, 53, (54), 57-61, 63-65, 69, 70, 73, 80, 88, 89, (90, 93), 94, 102, 104, 108. H(6, 8), 9, 20, 28, 31. (C).

72.17 **Didymodon cordatus** 4.

72.18 **Didymodon tomaculosus** 1-4, 40, 44, 45, 47, 56, 57, 63, 64. H4, 13, 18, 19, 21.

73.1 **Stegonia latifolia** (88), 89, (90), 92, 94.

74.1 **Crossidium squamiferum** 10.

75.1 **Pterygoneurum ovatum** (3), 6, 8-10, (13), 14-17, (18-20), 22, 23, (24), 25, 26, 28-30, (31), 32, (33, 34, 36-38), 40, (50, 52), 53, (54, 55, 57-59, 61-64, 66, 67), 68, (72, 77, 79), 81, (82), 83, (85, 90), 94, (96, 106). H(4, 21).

75.2 **Pterygoneurum papillosum** 5, 6, 9, 14, 23.

75.3 **Pterygoneurum lamellatum** (3, 6, 13, 16, 23, 24, 28), 29, (32, 33, 37, 55, 57, 62-64, 86). H(21, 38).

76.1 **Aloina brevirostris** 9, (11), 17, (19), 20, (22), 29, 47, 54, 55, (57), 58, (61), 62-66, (83), 84.

76.2 **Aloina rigida** 8, (11, 13), 14, 15, (16, 17), 20, 21, (22, 23), 24, 26, 28, 29, 32, 33, (34, 35, 37), 43-45, (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). H(19, 21, 38, 39).

76.3 **Aloina aloides** 1-29, (30), 31-72, 75, (76), 80-85, (86, 87, 90, 94, 98), 100, 101, (106). H(1), 2-12, (13, 14), 15, 17, (18), 19-26, 28, 29, 31, (32), 33, 35, (36), 37-40. C.

76.4 **Aloina ambigua** 1, (2), 3, (5), 6, (7), 8, 9, 11, 12, (13), 14, 15, 17-22, (23), 24-26, (27), 28-32, (33, 34), 35, 36, 40, (41), 44-46, 48-50, (52), 54, 55, 57, (58), 59, (60), 62-64, 66, (68, 69). H(2), 5, (6), 9, 20, (21, 31, 38, 39). C.

77.1 **Tortula subulata** (1), 3-6, (7), 8-10, (11), 12, 13, (14), 15-30, (32), 33-70, (71), 72, (73), 74-112. H(1, 4, 5, 8, 9, 11-14, 16, 20), 21, 22, (25), 26, (27), 28, 29, (30, 33, 35-38), 39, 40.

77.2 **Tortula inermis** 94.

77.3 **Tortula schimperi** 5, (11), 13, 19, 20, 24-29, 31-33, (34, 57), 68.

77.4 **Tortula cuneifolia** 1-5, (6, 11, 13-15, 17, 19, 22, 25, 36, 37, 39, 45), 46, 48, 49, (52). H(1, 3, 5, 8, 12, 14, 21, 38). (C).

77.5 **Tortula freibergii** 14, 39, 40, 58, 59, 62, 84, 85, 100.

77.6 **Tortula solmsii** 1, 3.

77.7 **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).

77.8 **Tortula vahliana** 3-6, 15, (16, 19), 25, 28, 29, (33, 34, 36). H(21).

77.9 **Tortula canescens** 1-4, (14, 43, 45), 47, 48, (101). H5. (C).

77.10 **Tortula muralis** 1-112, H1-40. C.

77.11 **Tortula leucostoma** 89, 92.

77.12 **Tortula cernua** (56), 57, (58), 63, (64).

77.13 **Tortula atrovirens** 1-4, (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, 111. H(1), 4-6, 8, 12, (20), 21, 35, (38, 39). C.

77.14 **Tortula amplexa** 19, 33, 37, 40, 55-58.

77.14A **Tortula bolanderi** 27.

77.15 **Tortula lindbergii** 1, (2), 3, (4), 5-10, (11), 12-17, 19, 20, (21), 22-26, (27), 28-30, 32-37, (38), 39-42, 44, 45, 47, 49-57, (58), 60, (61), 62-64, (65), 66, (67), 68, (69), 70, (75), 80-83, (84, 85), 88, 89, (90), 92, 94, 95, (99, 100, 106). H(4-6, 19, 21), 22, (38).

77.16 **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).

77.17 **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.

77.18 **Tortula caucasica** 1-65, (66, 67), 68, 69, (71, 73, 75, 76, 81), 82, 83, (85, 88), 89, 90, (91), 92, (95, 99), 101, (104-106). H(1, 4), 5, 7, 9-13, (16, 18), 19, (20), 21, (26), 27, 31, (33, 37-39). C.

77.18A **Tortula pallida** 2, 5, 13, (14), 34, 35, 41, 45.

77.19 **Tortula truncata** 1-70, (71), 72-98, (99), 101, 102, (103), 104-112. H1-40. C.

77.20 **Tortula protobryoides** 1, 3, (4), 5-14, (16), 17-34, 36, 37, 39-41, 45, 47, 49-54, (55), 56-59, (60), 61-63, (64), 66, (67, 68), 69, 82, (85, 90, 109), 111. H(39).

77.21.a **Tortula acaulon var. acaulon** 1-70, (71), 72, 74, 75, 77-86, 88-95, (96, 99), 100, 101, 106, 109-111. H(1), 2-23, (24), 25-29, 31, (32, 33), 34, (35), 37-39, (40). C.

77.21.b **Tortula acaulon var. pilifera** 1, (2, 3, 5), 9-11, 13, (14), 15, (16), 18, 19, 25, 27-29, 33-35, 41, 45, 49, 57, 60, 66, (67, 68), 81-83, (84, 89-91), 109. H12. C.

77.21.c **Tortula acaulon var. papillosa** 1, 2, 11, 24-28, 34, (39), 45, (48), 56, 57. H38, (39). C.

78.1 **Microbryum starckeanum** 1-4, 6, 8-12, (13), 14, 15, (17, 19, 23), 27, 34, 40, 41, 44, 45, 47, 49-52, (56), 57, (59, 68), 71, (90), 101, 102. H(5, 21, 33). (C).

78.2.a **Microbryum davallianum var. davallianum** 3, 5, 6, (7-11), 12, (13), 15, (17), 19, 20, (21, 22, 24), 26, 28-30, (33), 37, 40, (53, 57, 58), 60, 61, (62), 63, (64, 65, 67), 80, 111. H(22).

78.2.b **Microbryum davallianum var. conicum** (1-4), 5-9, (10), 11, 12, (13, 14), 15, (16-18), 19, 22-26, (27), 28, 29, (30, 33), 34-36, (38, 40, 41, 45, 46), 49, (50), 51, 52, (53-56), 57, (58-60), 61, (63, 64, 67, 75, 77, 81, 83), 84, (86, 90). H(1, 2), 5, (11), 15, (19), 21, (31, 33, 39). (C).

78.2.c **Microbryum davallianum var. commutatum** 1, (2), 3, (4, 9), 10, 13-15, (17), 25, 45, 49, (66).

78.3 **Microbryum rectum** 1-17, 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. H(1), 3-5, 7-9, 11-15, (16), 19, 20, (21), 22, 23, 26, (28, 31, 34). (C).

78.4 **Microbryum curvicolium** (1), 3, (4, 5), 6-17, (19), 20, 22-24, 26, (27), 28-30, 32-38, 40, 45, 49-55, 57, (61), 63, 64, (65), 66, (68, 69), 81, (90), 92, (94, 106). H(21).

78.5 **Microbryum floerkeanum** 1, 6-17, 19, 20, 22, (23), 24-26, (27), 28-30, 33-35, 38, 45, (49), 51, 53, 54, 56, 57, (58), 61-64, (66).

79.1 **Henediella stanfordensis** 1, 4, 6, 9, 14, 15, 25, 26, 29, 31, 33-40, 42, 43, 47, 50, 56, 58, 61-64, 66, 82, 83. H21.

79.2 **Henediella macrophylla** 3, 5, 9-26, 28-32, 34, 38, 42, 53, 54, 57, 68, 78-81, 83, 92-94.

79.3 **Henediella heimii** 1-3, (4), 5, 6, 9-11, 13-16, (17), 18-20, (21), 24, 25, 27-30, 32, 34, 35, 37, (38), 41, 44-49, (50), 51-54, 56, 58-63, (64, 65), 66-70, (71), 72-75, 81, 82, (83), 84, 85, 90, 91, (92), 93-98, (99), 100, (101), 102-112. H2, 3, (4, 5), 6, 8, 9, 11, 12, 15-17, (20), 21, 27-29, 31, 34, 35, 38, 39, (40). C.

80.1 **Acaulon muticum** 1-16, (17), 18-20, (21), 22-27, (29, 30), 31-33, 35-37, (38, 39), 40-43, 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.

80.2 **Acaulon mediterraneum** 1-3, (5), 11, 17, 45, 46, 57.

80.3 **Acaulon triquetrum** (3), 9, 10, 14.

81.1 **Chenia leptophylla** 1, 10, 36.

82.1.a **Syntrichia ruralis var. ruralis** 1-73, 75, 77-86, 88-96, 98, (100, 101), 102-104, 106, 108-112. H(1), 2-5, (6), 7-13, (14, 15), 16-31, 33-40. C.

82.1.b **Syntrichia ruralis var. epilosa** 24, 25, 64.

82.2 **Syntrichia ruraliformis** 1-6, 8-20, 22, (23), 24-29, 31, 32, 34, 35, 37, 40, 41, 43-63, 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.

82.3 **Syntrichia norvegica** 88, (92), 97, 98.

82.4.a **Syntrichia montana var. montana** 1-73, 75, 77, (78), 79-96, 98, 100-104, 106-109, 111, 112. H1-11, (12), 13, (14), 15-34, (35), 38-40. C.

82.4.b **Syntrichia montana var. calva** 33, 41.

82.5 **Syntrichia princeps** 40, 49, 57, (65, 75-77), 81, 83, 85, (86, 87), 88, (89, 90, 92), 96, (98, 99, 101, 106), 107, 108. H(28), 39, 40.

82.6 **Syntrichia virescens** 3, 6-8, 11-14, 16-41, 43-47, 50, 53-58, 61-67, 81-83, 89, 90, (91), 92-94, (106). H21.

82.7 **Syntrichia laevipila** 1-72, (73), 74-83, 85-91, 93-99, (101-103), 104-107, (109, 110), 111. H(1, 2), 3-12, 14, 15, 18-23, 25, 27-31, 33, (34-37), 38-40. C.

- 82.8 **Syntrichia papillosa** 1-29, (30), 31-37, (38), 40-51, 53, 54, (55), 56-75, 78-83, 85, 86, 88-91, (92), 93-97, (98, 99), 100, (101), 103, (105), 106, 107. H(1), 2-13, 15, 17-25, 27-29, 31-34, 36, 38-40. C.
- 82.9 **Syntrichia latifolia** 1-88, (89), 90, (91), 92, 93, 95, 106. H2, 4-8, 11-14, 18, 19, (20), 21, 22, 29, 31, 33, 36-39, (40). C.
- 83.1 **Cinclidotus fontinaloides** 1-11, 13, (14, 15), 16, 17, 19-27, 29-52, 54-70, (71), 72-84, (85), 86-90, (91, 92), 93, 94, (95), 97-99, 101-105, 107-112. H1-40.
- 83.2 **Cinclidotus riparius** 36, 37, 40. H(9).
- 84.1 **Saelania glaucescens** 90, (96).
- 85.1 **Blindia acuta** 1, (2), 3-5, 35, 36, 40-50, 52, 57-60, 62-112. H1-3, (4), 6-8, 13, 16, 20, 21, 26-29, 31, 33-36, (37), 38-40.
- 85.2 **Blindia caespiticia** (86), 88, 97.
- 86.1 **Blindiadelphus diversifolius** 62, 97.
- 86.2 **Blindiadelphus campylopodus** (24), 34, 35, (57).
- 86.3 **Blindiadelphus recurvatus** (3), 11, (12), 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, 98, (99), 100-109, 111. H1, 3, 6, 7, 16, 27-29, (31), 33-36.
- 87.1 **Seligeria pusilla** 3, 6-8, (9), 23, 33-37, (38), 39, 40, (41), 42-44, 48, 50, 51, (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.
- 87.2 **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.
- 87.3 **Seligeria brevifolia** 49, 57, 58, 87, 89.
- 87.4 **Seligeria calycina** 3, 6-17, 20-24, 26, 28-30, 32, 33, 54, 61, 62. H(39, 40).
- 87.5 **Seligeria calcarea** 3, 6-18, (19), 20-26, 28-30, 32-34, 37, 49†, 53-55, 61. H39, (40).
- 87.6 **Seligeria donniana** 6, (7), 16, (22), 23, 29, 32, 33, 35, (36), 37, 39-43, (48), 49, 57, 60, 62-65, (66), 67, (68-70, 72, 75-77), 80, 83, 86-90, (91), 92, 94, 96-98, (99, 101, 103), 104-106, (107), 108. H9, 14, 16, 28-30, 33, 35, 39.
- 87.7 **Seligeria trifaria** 105.
- 87.8 **Seligeria patula** 35, 42, 64, 65. H28, 29, 33.
- 87.9 **Seligeria oelandica** 42. H28, 29, 33.

87.10 **Seligeria carniolica** 67, 80.

88.1 **Ptychomitrium polyphyllum** 1-6, (9), 13, 17, 23, (32, 33), 34-37, (38), 39-50, 52, (55), 57-60, (62), 63-90, (91, 92), 93, 94, (95), 96-112. HI-13, (14), 15, 16, 19-22, 25-40. (C).

89.1 **Campylostelium saxicola** (3, 12), 13, 14, (15), 16, 36, 42, 46, (48), 49, 57, (58, 59), 60, 62, (64, 67), 68-70, 72, (77), 80, 86, 98, (99), 103, (104). HI, 2, 8, (20, 21), 28, 29, (40).

90.1 **Brachydontium trichodes** 1-3, 12, 13, (16), 17, 30, 34, 35, (36), 39, 40, 42-44, (48), 49, 57, 59, 60, 62, (63), 64, 65, (66), 67-70, 72, 73, 76-78, 80, (81, 83), 84, 85, (86-88), 89, 90, (92, 95), 96-98, (99), 103, 104, (105), III. H20, (21, 28), 29, 35, 38, (40).

91.1 **Coscinodon cribrosus** 2, 4, 44-50, 57, 62, 64, 69-71, (72, 73), 83, (88), 94.

92.1.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, 93-98, (99), 100-106, (107), 108-112. HI-4, (5), 6, 8, 9, 12, (13), 16, (17), 20, 21, 27-29, 31, 34, 35, 38-40. C.

92.1.b **Schistidium maritimum subsp. piliferum** 71, 103, 104, 110, 112.

92.2 **Schistidium rivulare** 2-5, (34), 35, 36, (37-39), 40, 42-50, (51), 52, (55), 57, 58, (59), 60, 62-70, (71), 72-101, 103-106, 108, 109, 111, 112. HI-3, (4-7), 8, 9, 16, 20, 21, 24, 25, 28, (29), 30, 33-35, 38-40.

92.3 **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, 89, (90, 92), 94, 95, (96), 98, 104, 108, 112. HI, 3, 8, 9, (19, 28, 33), 34, 36, 39, (40).

92.4 **Schistidium agassizii** 48, 49, 65, 66, 69, (70), 72, (73), 87, 88, 90-92, 94-98, 105-108. H27, 35.

92.5 **Schistidium apocarpum** 1-6, 13, 27, 33-37, 39-53, 57-59, 62-98, (99), 100, (101), 103-112. HI-4, 6-11, 13, 15-17, 19, 20, 25-40.

92.6 **Schistidium flexipile** 104.

92.7 **Schistidium trichodon** (49), 64-66, 69, (70), 87-90, 92, 94, (96), 97, 98, 105, 108. H29, 33.

92.8 **Schistidium papillosum** 48, (72), 88-90, 92, 96-98, 104.

92.9 **Schistidium pruinsum** 43, 47, 57, 72, 75-77, 81, 83, 85, (87), 88-90, 92, 97, 98, 103, 104, 107, 112. H39, 40.

92.10 **Schistidium strictum** (41), 42, 44, 46, 48-50, 64, 65, (66), 68-70, 72, 73, 75, 78, 83, (86), 87-90, 92, 94-98, (99), 100, (101), 103-108, (109), 110-112. HI, 3, 6-8, 13, (18, 25), 27, 28, (29), 35, 39, 40.

92.11 **Schistidium dupretii** 88, 89, (90), 92, 97, 107.

92.12 **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.

92.13 **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).

92.14 **Schistidium flaccidum** (49), 103.

92.15.a **Schistidium frigidum var. frigidum** 42, 46, (47, 49, 65, 72, 78), 92, 97, 104, 108.

92.15.b **Schistidium frigidum var. havaasii** (49, 65, 72), 92, 104.

92.16 **Schistidium atrofusum** 88, 89, 92, 94, 96.

92.17 **Schistidium crassipilum** 1-78, 80-98, 100-112. H1, 3-16, 18-36, 38-40. C.

92.18 **Schistidium elegantulum** 18, 19, 33-37, 40, 41, 43-49, 51, 52, 57-60, 62, 64-66, 69, 72, 75, 76, (97, 98), 102-105, (108), 110. H2-11, 15, (16), 17, 19, 20, 24, (26), 28, 33-36. C†.

92.19 **Schistidium helveticum** 47, 88, 94.

93.1 **Grimmia anodon** (69), 83.

93.2 **Grimmia crinita** 2, 17, 24, (38). H(21).

93.3 **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.

93.4 **Grimmia tergestina** 7, 19, 23, 33, 34, 49, 51, 98, (103), 112.

93.5 **Grimmia montana** 3, (35), 40, 43, 45-47, (48), 49, (52, 65, 70), 72, (73), 80-83, (85, 86, 90), 92, 93, (98). (C).

93.6 **Grimmia reflexidens** (75).

93.7 **Grimmia alpestris** 48.

93.8 **Grimmia donniana** 3-6, 35, (36, 37), 40-52, 57-59, (60), 63, (64), 65-70, (71), 72-83, 85, (86), 87-98, (99), 100, 101, 103-105, 108, (110), 112. H1, (2, 6), 7, 16, (19), 20, (21), 27, 31, (34, 37), 38, 39.

93.9 **Grimmia arenaria** 48, 49, (50), 70.

93.10 **Grimmia elongata** 45-49, (68, 69), 70, 72, (73), 90, 92.

93.11 **Grimmia longirostris** (3), 4, 13-15, 35, (39), 43, 44, 48, 49, (55), 68, (69), 75, 83, (85, 87), 88, 89, (90, 91), 92, (93), 95, 97, 98, 101, (102), 103-106, 108, 112. H(1, 4), 16, (38), 39.

93.12 **Grimmia ovalis** 10, 13, (16, 19, 34), 35-37, 42-44, (50), 66, (69, 70, 73), 81, 82, (83, 85, 87, 88), 89, 90, 96, 98, 107, 108.

93.13 **Grimmia unicolor** 90, 108.

93.14 **Grimmia atrata** 46-49, 69, 70, 72, 73, (88), 89, 90, 92, 96, 98, 101, 103, 106. H(1), 35.

93.15 **Grimmia incurva** 40, 45, 48, 49, 68-70, 72, (73), 80, 89, 90, (91), 92, (94), 95-97, (98), 101, 105, 106, 108.

93.16 **Grimmia pulvinata** 1-112, H1-13, (14), 15-40. C.

93.17 **Grimmia orbicularis** 1-3, (4), 6, 8, 9, 11, 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.

93.18 **Grimmia torquata** 42-44, 48-50, 64-66, 68-70, 72, 73, 75, (78), 86-90, 92, 95-99, (100), 101, 103-108. H1, (2), 3, 6-8, 16, (20, 27), 28, 39.

93.19 **Grimmia funalis** 45, 47-49, 64, (65), 66, 69, (70), 72, 73, 75, 77, 78, (85), 86-90, 92, 94, 96-98, (99, 100), 101, 103-110. H1, 3, (4), 6, (7), 16, (20), 27, (31), 34, 35, 38-40.

93.20 **Grimmia trichophylla** 1-14, 16-18, 20, 22, 24-28, 29†, 32, 34-50, 52, 55-60, (61), 62-112. H1-4, 6-9, 11-13, (14), 16, 17, (18, 19), 20-22, 26-29, (30), 31-33, (34), 35-40. C.

93.21 **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, 102, (103), 104, 105, 107, 108. H1-3, 5, 6, 8, 9, 16, 22, 31, (35). C.

93.22 **Grimmia dissimulata** 5-7, 12-14, 19, 25, 26, 28, 29, 33, 34, 57, 60, 64, 75, (106), 112. H9, 15.

93.23 **Grimmia muehlenbeckii** 47-49, 75, 86, 90, 94, 97, 98, (101), 102-105, 110. H1, 3, 6, 39, 40.

93.24 **Grimmia hartmanii** 2, 3, (34), 35, 36, 42-50, (52), 64, 65, (66, 67), 68-70, 72-75, 79, 81, 82, 86-99, 101-105, (106), 107, 108, 110. H2, 3, 7, (16), 20, (26), 27, 29, (31, 34), 35, (38, 39), 40.

93.25 **Grimmia anomala** 49, 88, 96, (97). H3, 26, 28.

93.26 **Grimmia decipiens** 1, (2), 3, (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).

93.27 **Grimmia elatior** (90), 107, 108.

93.28 **Grimmia ramondii** (2), 3, 4, 42-45, 47-49, (57), 65, 68-70, (71), 72, 73, 75, 76, 78, 80, (82), 86-90, 92-100, (101), 102-110, 112. HI-3, 6, 7, (16), 20, (21), 27, 31, (34), 35, 38-40.

94.1 **Racomitrium ellipticum** 48, 49, (65), 69, 70, 72, (73), 75, 76, (86), 87, 88, 90, 92, (94), 96-98, (99), 100, (101), 102-108, 110-112. HI-3, (4), 16, (20), 27, 28, 31, 34, 35, 38-40.

94.2 **Racomitrium aciculare** 1-6, 8, 13-15, (16), 17, 19-21, 24, 25, 27, 29†, 30, 32-53, 55, 57-60, 62-112. HI-4, 6-10, 12-16, 18-40. C.

94.3 **Racomitrium aquaticum** 1-6, 9†, 35, 36, (37), 40-50, 52, (55), 57, 58, (59), 60, 63-78, 80, 82, (83), 84-92, 94-108, (109), 110-112. HI-3, (4, 5), 6-8, 11-14, 16, (18), 20, 21, (24), 25-31, (32), 33-35, (36, 37), 38-40. C.

94.4 **Racomitrium fasciculare** 1-6, 8, 11-14, (16), 17, 19, 20, 22, 24, 26, 30, (32, 33), 34-52, 54, 55, 57-60, 62-112. HI-4, 6-13, (14), 16, (19), 20-22, (24), 25-40.

94.5 **Racomitrium macounii subsp. alpinum** 42, 44, 46, 48, 49, 69, 88, 90, 92, 94, 96, 97, (98), 105-108. HI, 3, 27.

94.6 **Racomitrium sudeticum** 4, 35, 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. HI-4, 6-8, 12, 13, 16, 20, 21, 27-31, (33), 34-36, 38, (39), 40.

94.7 **Racomitrium affine** 3, 4, 9, 13, 14, (15), 16, 17, 34-36, 39-49, (50), 55, 57-59, (60), 62-76, 78, (79), 82-90, 92-94, 96-98, 100-108, 110-112. HI, 6, 8, 12, 13, 16, 20, (27), 31-36, (38), 39, 40.

94.8* **Racomitrium heterostichum sensu Hill et al.** 1-8, 9†, (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. HI-9, 11-13, 15, 16, 19-22, (24), 25-31, 33-36, (37), 38-40.

94.8 **Racomitrium obtusum** 1-5, 13, 14, 20, 22, 24, (29), 34, 35, 40, 42-50, 52, 57-59, 63-65, 69-71, 73, 75, 85, 87, 93, 98, 100, 102, 104, 105, 110, 112. HI, 3, 13, 20, 25, 26, 35.

94.9 **Racomitrium heterostichum s.str.** 3-5, 8, 13, 22, 29†, 35, 37, 42, 45-48, 57, 64, (68), 75, 76, 86, 88, 102, 110, 112. H31.

94.10 **Racomitrium himalayanum** 88, 98.

94.11 **Racomitrium lanuginosum** 1-6, 8, 9, 11, (12), 13, 14, (16), 17, 19, 20, (22), 23, (24, 27), 29, 30, (32, 33), 34-36, (37), 38-50, (51), 52, 55, 57-60, (61), 62-112. HI-10, (11), 12-40.

94.12 **Racomitrium ericoides** 1-6, 8, (9), 12, 13, (19, 23, 27), 28, (29), 30, (33, 34), 35-52, (54), 55, 57, 59, 60, 62-90, 92, 94-112. HI-3, (5), 8-10, 12, (13), 14-16, (18, 19), 20, 21, 25-36, 38-40.

94.13 **Racomitrium elongatum** 2-4, (9), 11, (12), 17, (20), 26, 28, 40, (42), 43-50, (52), 57, 60, 65-72, 74-78, 80-83, (85, 86), 87-94, 96-99, 104-106, 108, 109, 112. H20, (39).

94.14 **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).

95.1.a **Hedwigia ciliata var. ciliata** 1, 7, 13, 14, 19, 22, 29, 35-37, 40, 42, 43, 47, (48), 55, 57, 61, 70, 80, 88.

95.1.b **Hedwigia ciliata var. leucophaea** 35, 36, 82.

95.2 **Hedwigia striata** 48, 49, 69, (73, 87), 97, (98), 105, 108. H6.

95.3 **Hedwigia stellata** 1-9, 12-15, 20, 22, 28, 29†, 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, 19-21, (22, 24, 25), 26-28, (29), 30-36, (37), 38-40. C.

96.1 **Braunia imberbis** 45, 46, 48-50, 52, 69, 70, (71, 72), 73-75, 82, (87-89), 96-98, (100), 101, 103-105, 108. H1, 3, 6, 20, 31, 37, 39.

97.1 **Tayloria lingulata** (86), 88, (89), 90, 92, 94.

97.2 **Tayloria tenuis** (87, 88, 90-92, 96, 105), 109. H(40).

98.1 **Tetraplodon angustatus** (49, 88-90), 92, 94-97, (104), 105, 106, (108). H18.

98.2 **Tetraplodon mnioides** (3, 4), 12, 17, 35, 40, (41), 42, 44, 46-49, 52, (54), 57, 58, (59), 60, (61), 62-70, 72-83, (85, 86), 87-90, (91), 92-98, (99), 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).

99.1 **Aplodon wormskioldii** 66, (69, 70, 88), 96.

100.1 **Splachnum sphaericum** (3, 4, 35, 36), 41-43, (44, 46), 47-50, 57-60, 62-70, (71), 72, 73, 75-81, 83, (84, 85), 86-90, (91), 92, 94-98, (99), 100-112. H1-3, (7, 9, 11), 16, 19, 20, (21, 26), 27-30, 33, (34), 35, 36, 38-40.

100.2 **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, 62-64, (65), 66-70, 72, 73, (74), 75-80, (81), 82, 83, (86), 87-89, (90), 92-99, 101-110. H1, (2), 3, 4, (7), 8-10, (12, 14), 15-18, (19), 20, (21), 22, 23, (24), 25-29, 31, 33, (34), 35, (36, 37), 38, 39, (40).

100.3 **Splachnum vasculosum** (65, 68, 69), 70, 72, 78, 87, 88, (89), 90, 92, 93, 95-97, (106, 107).

101.1 **Paludella squarrosa** (58, 61, 62). H27.

102.1 **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.

102.2 **Meesia triquetra** H(27), 28.

103.1 **Amblyodon dealbatus** (4, 26, 27, 37, 38), 41, 42, 44, 48, 52, 59, (60, 62, 63), 64, (65-67), 68-70, (74, 75), 80-83, (85-87), 88-90, 92, 94, 95, (96), 104, 105, (106), 108-112. H1, 3, 9, 16, (17, 21, 26), 27-29, (31, 32), 33-35, (38), 39, 40.

104.1 **Leptobryum pyriforme** 1-42, 44-78, (80), 81-86, (88), 89, (90), 92-96, (97-99), 101-111. H2-4, 6-8, (9, 14), 17-23, 25, (26, 27), 29, 30, (31), 33-36, 38, 39, (40). C.

105.1 **Plagiopus oederianus** (1, 34), 35, (36, 39, 41), 42-44, 46-50, 57, 60, 64, 65, (66), 69, (70), 72, (76, 83, 85), 86-90, 92, (94), 96-98, (99, 103), 104, (108). H(1), 29, 39.

106.1 **Bartramia halleriana** 35, 42-44, 46, 48, 49, (57, 62), 64, 65, (66), 69, 70, 72, 73, 75, (76, 80), 86-90, 92, 95-99, (100, 101), 103-106, 108. H1, (4, 6), 20, (36, 39).

106.2 **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, 62-70, (71), 72-110. H1-13, (16), 20-22, 27-31, 33-36, (37), 38-40. C.

106.3 **Bartramia ithyphylla** (2, 3), 13, (14-17), 24, (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.

106.4 **Bartramia aprica** (14), 43, (47), 88. C.

107.1 **Conostomum tetragonum** (49, 69), 86-90, 92, 94, 96-100, 103-107, (108, 112).

108.1 **Philonotis rigida** 1, (2), 3, 4, (43), 45, 48, 49, (50, 71), 75, (87), 98. H1, (2, 3), 16, (20), 27, (33), 34, 35, 39. C.

108.2 **Philonotis marchica** 10, (65).

108.3 **Philonotis capillaris** 1-4, (9, 10), 13, (14-17, 22, 23), 35, (36, 37), 40, 42-50, 57-60, 64, 67, 68, (69), 70, 72, (73), 75, 81-83, (86), 87, (90), 92, 93, 95-98, 101, 103-105, 108, (109), 111. H(16), 30, (36, 38, 39). (C).

108.4 **Philonotis caespitosa** 1, 2, 4, (6), 8, (9-11, 13, 14), 17, (22, 38), 39-49, 57-60, 63, (64), 65-67, (68-70), 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).

108.5 **Philonotis fontana** 1-14, (15), 16, 17, (18, 19), 20, (21), 22, 23, (24-26), 27, 28, (29), 30, (32), 33-55, 57-112. H1-10, (11), 12-18, (19), 20-40. C.

108.6 **Philonotis tomentella** 49, (65, 68-70), 88, (89, 90), 94, 96-98, 103-105, 107, (110), 112. H27, 34, 35.

108.7 **Philonotis seriata** 49, 87-90, 92, 94-98, 103, 105-108, (111).

108.8 **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, 85-90, (91), 92, (93), 94, 95, (96), 98-105, (106), 107-112. H(1), 2, (6), 7, 9-11, 14-16, (17), 18-31, (32), 33-35, (36-39), 40.

108.9 **Philonotis cernua** (48, 90, 97, 98, 105, 110). H(1, 16), 27, 35.

109.1 **Breutelia chrysocoma** 1-6, (9), 11, 35, 36, (39), 40-52, (54, 55), 57, (59), 60, (61), 62, (63), 64-70, (71), 72-80, (81), 83, (85), 86-90, (91), 92-112. HI-18, 20, (24), 25-40.

110.1 **Bryum julaceum** 1, (3), 35, 36, (39), 40-50, 52, 57, (59), 60, 64-83, 86-92, (93), 94-112. HI-3, 6, 7, 9, (15), 16, 20, 26-29, (30, 31), 33-36, (37), 38-40.

110.2 **Bryum concinnatum** 6, 36, 40-49, 57, (59), 60, 64, 65, (66), 68-70, 72, 76, 78-80, 82, 83, 87-90, 92, 94-99, (101), 102-105, 107, 108, 110. HI, 3, 6, 8, 9, 16, 26-29, 31, 33-35, 39, 40.

110.3 **Bryum marratii** 41, 44, 46, 48, 49, (54, 59, 60, 62), 68, 70, (75), 82, (85, 90), 101-103, 105, 108, 109. HI, 21, 27, 34, 35, (40).

110.4 **Bryum canariense** 3, 6, 9, 10, (13, 14), 15, (16, 34, 36), 39-41, 44, 45, (47), 49-52, 57, 60. C.

110.5 **Bryum argenteum** 1-112, HI-40. C.

110.6 **Bryum dixonii** 87-90, 92, 96-98, 104-108, 110.

110.7 **Bryum gemmiferum** 1-4, 6, (7), 8-38, 40-42, 44-51, 53-68, 70, (71), 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.

110.8 **Bryum gemmilucens** (6, 9), 11, (13), 20, 22, 25, (27), 28, (29, 34, 38), 45, 46, 53, 54, 56, (62), 63.

110.9 **Bryum dichotomum** 1-112, HI-40. C.

110.10 **Bryum apiculatum** 1, 2.

110.11 **Bryum dyffrynense** 1, 15, 44, 45, 48, 52, 59, 69. HI 6, 27, 35, 40.

110.12 **Bryum radiculosum** 1-43, 45-68, (69), 70-90, 92-94, 96-98, 100, (101), 102-104, (105), 106-109, (110), 111. HI-5, 7-13, (14), 15-23, 25, 27, 29-33, 35-40. C.

110.13 **Bryum ruderale** 1-70, 72, 75, 76, 78-86, (87), 89, 90, 92-97, (99), 100-103, 105, 107-112. HI-14, (15), 16-22, (23), 24-27, 29-35, 37-40. C.

110.14 **Bryum violaceum** 1-20, (21), 22-48, (49), 50, 51, 53-66, 68, 70, (71), 72-74, 76, 77, 79-85, 88, 89, 91-96, 98, (99), 101-103, 106-109, 111. H(1), 3-5, 7-9, 11, 13-15, 18, 19, 21-23, 26, 29, 31, 34, 35, (38), 39. C.

110.15 **Bryum klinggraeffii** 1-20, 22-48, (49), 50-74, 76, 77, 79-83, (84), 85, (87), 88, 90-96, 98, (99), 101-103, 106, (108), 109-112. H(1), 3-26, (27), 28-32, 34-36, 39, 40. C.

110.16 **Bryum sauteri** 1-5, 9, 11-16, 20, 22, 27, 28, 34-37, 41-52, 57, 60, 62, 63, 66, 69-71, 73-75, (76), 77, 81, (83), 85, (86, 87), 89-94, 96, 98, (99), 100-104, 106, 107, 109, 111, 112. HI, 3, 4, (6), 7-9, 13, 16, 20, 27, 30, 31, 34, 35, 39. C.

110.17 **Bryum valparaisense** 1.

110.18 **Bryum riparium** 5, 41, 43-49, 57, 64, (65, 69, 70), 72, 73, 75, 78, (80), 86-90, (92), 95-98, (99), 101-106, 108-110. H(1, 6), 16, 20, 27, (38).

110.19 **Bryum gemmiparum** (3), 4, (35), 42. H26.

110.20 **Bryum tenuisetum** 1, 2, 4, (9), 11, 12, (17), 20, 21, 24, (25), 29, 42, 43, 45-50, 52, 57-59, (61), 63, 64, (70), 73, 75, 76, 78, 82, 83, (86, 90, 97), 98, 99, 101, 102, 104, 108, 112. H29, 35. (C).

110.21 **Bryum subapiculatum** 1-17, 20-50, 52-88, (89), 90-94, 96-98, (99), 101-105, 108-112. H1, 3-6, (10), 12, 13, 15, 16, 20, 22, 23, 27, (29), 30, 31, 34, 36, (37), 38-40. C.

110.22 **Bryum mildeanum** (36), 42, 44, (49), 64, (65, 66, 69, 70), 80, (87-89, 91, 92), 96, 97, (98, 107), 108.

110.23 **Bryum muehlenbeckii** 49, 88, 92, 96-98, (103), 105, (106), 107, (108).

110.24 **Bryum alpinum** 1-5, 8, 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), 15, 16, 20, 21, 24, (25), 26-28, 30, 31, 33-36, (37), 38-40. C.

110.25 **Bryum zieri** 35, 36, (39-41), 42-44, 47-50, 57, (59), 60, (62), 63-66, (67), 68-70, 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.

110.26 **Bryum demissum** 88, (89, 90), 98.

110.27 **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.

110.28 **Bryum calophyllum** (4), 46, 48, (49), 52, (58, 59, 62, 66, 68, 69), 82, (85, 90, 95), 102, 105, 108, (109), 111. H16, 27.

110.29 **Bryum arcticum** 88, 89, (90), 92, 104.

110.30 **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).

110.31 **Bryum pallens** 1-6, (7), 8-20, (21), 22-25, (26), 27-30, (32), 33-73, 75-112. H1-4, (5, 6), 7-10, (11), 12-20, (21), 22-40.

110.32 **Bryum turbinatum** (13, 23, 35, 39, 42, 48, 59, 67, 104). H(27).

110.33 **Bryum schleicheri var. latifolium** 86, (88).

110.34 **Bryum weigelii** 40, 49, (64), 65, (68), 69, 70, 72, 77-80, 87-90, (91), 92, (93), 94-98, 103-108, (109, 111). H(6).

110.35 **Bryum cyclophyllum** (69, 70), 83, 86, (98), 99, (101, 105).

110.36 **Bryum algovicum var. rutheanum** 1-4, (5), 6-9, (10), 11, (12), 13-15, (16, 17), 18, (19, 20), 22-29, (30), 31, 32, (33, 34), 36, 37, (39), 40, 41, (42), 43-60, (61), 62-64, (65), 66-71, (72), 73-75, (77, 78, 80), 82-84, (85), 86, (87), 88-97, 100-112. HI-4, (5), 6, (7), 8, 9, (11), 12, (13, 14), 16-21, (22), 23, 25-30, (33), 34, 35, 37, 38, (39), 40. C.

110.37 **Bryum salinum** (5), 68, 70, (75, 91), 102, 105, (106), 108. HI, (17).

110.38 **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.

110.39 **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. HI-3, (4, 5), 6, 9, 10, (11), 12, 15-18, (20, 21), 22, (23), 24-33, 35, 36, (37), 38-40. C.

110.40 **Bryum intermedium** (1-4, 6, 8), 9, (10, 11), 12, (14), 15, (16-19, 21), 22, (23, 25, 26), 28, 29, 31, (32), 33, (34), 36, (37-39), 40, 41, (44-46, 48, 49), 51-55, (56, 57), 58-60, (61-63), 64, (65), 67-70, (73, 74), 81, 82, (83, 85, 86, 90-92, 97, 104), 109. H(4), 21, 26, (34), 38, 39, (40).

110.41 **Bryum donianum** 1-6, (7), 8-14, (15-17), 18, 19, 23-29, 34-37, 40-42, 44-50, 52, (53), 57, (59), 60, (71), 74. HI, 3-7, 9, 11, 12, 19-21, (22), 23, 27, 28, 40. C.

110.42 **Bryum capillare** 1-112, HI-40. C.

110.43 **Bryum elegans** (14), 33, (36), 40, 42, 47, 50, 57, 59, 60, 62, 64-66, (68), 69, 70, (81), 82, (87), 88-90, 92, 94, 95, 97, (98), 108. H28, 29.

110.44 **Bryum moravicum** 3-45, 47, 48, 50, 51, 53-70, 72, 74, 75, 78-85, 88, 89, 92-96. HI.

110.45 **Bryum torquescens** 1-3, 5, 6, 8-12, (13), 14, 15, (16), 19, (23), 24, 26, (28), 29, 32, 33, (34, 36), 37, 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.

110.46 **Bryum creberrimum** 6, (9, 11), 12, (13), 14, (16), 17, 18, (23), 24, (29, 34), 40, (42), 43, 49, 50, (57, 58), 59, (60, 61, 66, 69, 70, 77, 88), 89, 95, (96, 106). H4, 15, 21.

110.47 **Bryum pallescens** 1-4, 6, 8, 9, 11, 13-15, (16), 17, (18), 19, 22, 23, 25-29, 31-52, 55, 57-60, (61), 62-65, (66, 67), 68, (69), 70-74, 78, (80), 81-83, (85), 87, (88), 90, 92-97, (98), 102, 104, 105, 107, 108, 110-112. HI-4, 7, 9-13, 15-18, 20, 22, 25-30, 32-36, (38), 39, 40. C.

110.48.a **Bryum pseudotriquetrum var. pseudotriquetrum** 1-3, 18, 28, (29), 42, 46-49, 57, 59, 64, 65, 68, 70-73, 82, 88-92, 102, 104-107, 109, 110, 112. HI-3, 7, 9, 12, 15-18, 21, 25-31, 33-35, (37), 38-40.

110.48.b **Bryum pseudotriquetrum var. bimum** (1-3), 5, (6), 9, (10, 11), 12, (16), 17, (18), 19-22, (23), 24, 26, (27), 28-33, (34), 35, (36-38), 41, 44-46, 50, 51, (52), 53, 54, (55), 57-61, 63, (64), 66, (68), 69, 70, 72, 75, 77, (81, 83, 86, 88, 90, 92), 96, (98), 99, (101, 106), 107, 109. HI, 2, 4, (9), 10, (11), 12, 15-18, (20, 23), 25-27, (28, 32), 33, 35, (38), 39, 40. (C).

110.49 **Bryum caespiticium** 1, (2), 4, 5, 8, 9, 11, 12, 14-19, 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), 8, 11, 18, 26, 31, (39).

110.50 **Bryum kunzei** 1, 3, 6, (9, 14), 35, (36), 40, 41, 43, 45, 47, 49, 51, 52, 57, (63, 66).

110.51 **Bryum bornholmense** 1-3, (5), 7-9, 11-17, 19, 20, 22-30, 36, 37, 39, (40), 41, 43-50, (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.

110.52 **Bryum rubens** 1-112, HI-29, 31, 33-35, (36), 37-40. C.

110A.1 **Ptychostomum touwii** 2.

111.1 **Rhodobryum roseum** (2), 3-9, (10), 11-14, (15), 16, 17, 19, (20, 21), 22-24, (25), 26, (27), 28, (29), 30, 32, 33, (34), 35-37, (38), 39-52, 54, 55, 57, (58, 59), 60, 62, (63, 64), 65-70, (71), 72, (73, 74), 75, (76, 77), 78-84, (85, 86), 87-89, (90, 91), 92, 95-98, (99, 100), 101-105, (106), 107, 108, 110, 112. H(2, 4-6, 8), 9, 11, (15), 16, 18, (20), 22, 25-27, (29), 31, 33, 35, (36, 38), 39, 40.

112.1 **Mielichhoferia elongata** 62, 92, 108.

112.2 **Mielichhoferia mielichhoferiana** 92, 98.

113.1.a **Pohlia elongata var. elongata** 2, (4, 11), 35, 40-50, 57, 59, 60, 63-70, 72, (73), 75, 76, 78, 86-89, (90), 92, 94, 96-98, (99), 100, 101, 103-108, 110. HI, 3, (6), 7, 8, 16, 20, 27, 29, 34, 35, (38), 40.

113.1.b **Pohlia elongata var. greenii** 49, (69), 70, (73, 86), 87, 88, (89, 90, 92, 96), 97, 98, (99), 100, 103, (104), 105, 106, (107), 108. H(1), 7, 16.

113.2 **Pohlia crudoides** (96).

113.3 **Pohlia cruda** 3, (4), 35, 36, 40, 42-44, 46-50, 57, 59, 60, 62-70, 72, (73), 75-99, (100, 101), 103-110, 112. HI, 2, 6-8, 10, 16, (20, 21), 27-29, 33-35, (38), 39, 40.

113.4 **Pohlia nutans** 1-112, HI-4, (5), 6-13, (14, 15), 16-18, (19), 20-25, 27-30, (32), 33-40. C.

113.5 **Pohlia obtusifolia** (88), 94, 96, 97, 105.

113.6 **Pohlia drummondii** 1-3, (7, 11), 12-14, (22), 27, 38, 40-49, 57-60, (62), 63-68, (69), 72, 73, 75, 78-80, (81), 82-90, 92, 94-100, 103-108, 110, 112. HI, 3, 5, 12, 16, 27-29, 31, 34-36.

113.7 **Pohlia scotica** 87, 88, 96-99, 105, 106, 108.

113.8 **Pohlia filum** 2, (17), 43, 44, (60), 67, 73, (74), 83, (85, 86), 87-90, 92-99, 101, 105-107, (108), 112. H(6), 27, 35, 36, 40.

113.9 **Pohlia andalusica** 1-3, 88, 105. H3, 6.

113.10 **Pohlia bulbifera** 2, 3, 5, 12, 27, 36, (38), 40, 42-50, 57-60, 63, 64, 67, 69, 70, 73-78, 81-84, 86-90, 92-100, (101), 102-108, 110, 111. H1, 3, (4), 6, 11, 16, 26-31, 34, 35, 38, (39).

113.11 **Pohlia annotina** 1-25, (26), 27-30, 32, 34-36, (37), 38-52, 54-110, 112. H1, (2), 3, (4), 5-10, 12-14, 16, (19), 20, 21, 25-30, (31), 33-40. C.

113.12 **Pohlia prolifera** (37), 50, (69), 77, (80, 81, 86), 88-90, 92, (93), 94-96, (97), 106. H(40).

113.13 **Pohlia camptotrachela** 1-5, (6), 10, (11), 17, 23, 39-50, 52, 57-60, 62-65, 68-78, 80-100, (101), 102-109, 111, (112). H1-4, 6, 9, 10, 12, 16, 20, 26, 27, 30, 32-36, 38-40.

113.14 **Pohlia flexuosa** 1-5, 41, 42, 44, 46-49, 57, 59, 60, 63-65, 69, 70, 72-75, 77, 78, 80, 83, 86-88, 95-100, (101), 102-106, 108, 110. H(1), 2, 3, (6), 7, 9, 16, 20, 27-29, 34, 36, 39, 40.

113.15 **Pohlia ludwigii** (48), 49, (65), 68, (69, 70, 86), 87-90, 92, 94, 96-98, (99), 104-107, (108).

113.16 **Pohlia lutescens** 1-20, 22-27, 29, 30, 32-52, 55-60, 62-64, 66-68, (69), 70, (71), 72-74, 78-83, 86, 89, 92, 93, 95, 96, 98-100, (101), 104, 107, 109. H(2), 3, 6, 8-10, 12, 20, 27, 33, 36, 37. C.

113.17 **Pohlia lescuriana** 1-3, 6, 8, 10-17, 20, 21, 24, 29, 33-35, 39-41, 43-50, 57-60, 63, 64, 71, 76-78, 80, 85, 86, 88, 90-92, 96, 98, 99, 107-109. H3, 4, 8, 35.

113.18 **Pohlia melanodon** 1-75, (76), 77-85, 88-95, 97-112. H1-40. C.

113.19.a **Pohlia wahlenbergii var. wahlenbergii** 1-20, (21), 22-112. H1-40.

113.19.b **Pohlia wahlenbergii var. glacialis** 49, (68, 69), 78, 88, (89), 90, 92, 94, 96-98, 103-106, (107). H2, (28).

113.19.c **Pohlia wahlenbergii var. calcarea** (1), 2, (10, 14, 17), 25, (64). H16, 34, (35), 39.

114.1 **Epipterygium tozeri** 1-6, 8-19, 33, (34), 35, (36), 37, (40), 41-50, 52, 71, 93, (98), 101, 102. H1-6, 8, 9, 12, 20, 29, (34), 37-40. C.

115.1 **Mnium hornum** 1-112, H1-40. C.

115.2 **Mnium spinosum** 88-90, 92, (96), 97, 98.

115.3 **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.

115.4 **Mnium lycopodioides** 88, (90).

115.5.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), 63-67, (68), 69, 70, (72, 73), 75-77, (78), 79-83, (84-86), 87-92, 94, 96-98, (99, 101), 102-106, (107), 108, (109), 111, 112. H(1, 6), 7, 11, 16, 19, 20, 28, 29, 33, (34), 35, 39, (40).

115.5.b **Mnium marginatum var. dioicum** (13), 35, 41, 50, 57, (62), 63, (65, 88). H40.

115.6 **Mnium stellare** 3-6, (7), 8-13, (14), 15-17, 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).

116.1 **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.

117.1 **Rhizomnium punctatum** 1-51, (52), 53-112. H1-21, 23-40. C.

117.2 **Rhizomnium magnifolium** 87, 88, 90, 92-94, 96-98, 105-107.

117.3 **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, 102, (103), 104-112. H(2), 6, (12), 13, 15, 16, 19, (21), 22, 26-30, (31, 32), 33, 35, (36), 38, 39, (40).

118.1 **Plagiomnium cuspidatum** 1-4, (5), 6, (7), 8, (9), 10, (12), 13-17, (19), 20, 22, (23), 24, (25), 26-29, (30, 32), 33-37, (38), 39-52, 55-70, 72, (73), 75, (76), 77, 79-84, (85, 86), 87, 88, (89), 90, (91, 92), 93, 95-99, 101-105, 107-110, 112. H1-4, (7), 12, (15), 16, (17, 20, 21, 24), 25-27, (28), 29, 30, (32), 33, 34, (35, 36), 38-40.

118.2 **Plagiomnium affine** 1-66, 68-77, 80-83, (84), 85, (86), 87-102, (103), 104-106, 110. H1, 3, 4, 8, 10, (12, 14), 15, 17, 19-21, 25, 26, 33, 35, (36), 38-40. C.

118.3 **Plagiomnium medium** 88, 90, 92, (97), 98, 103, 106, 108.

118.4 **Plagiomnium elatum** 4-6, (7), 8, 9, (10), 11-15, (17, 18), 19, 20, 22-29, (30), 32, 33, 35, 36, (37), 38-53, (54), 55-70, (71), 72, 73, (74), 75-98, (99), 100-112. H2, 3, (5), 7, (8), 9-11, 13, (14), 15, (16), 17-19, 21-36, 38-40.

118.5 **Plagiomnium ellipticum** 1, 3, 6, (14, 17, 21), 22, 23, (24), 25-29, 32-35, 38-42, (43), 44-46, 48-50, 52-60, 62-83, 85, 86, (87), 88-112. H1, (6, 7), 8, (9), 10, (15), 16, (17), 19, 20, 22-25, 27-37, (38), 39, (40).

118.6 **Plagiomnium undulatum** 1-112, H1-40. C.

118.7 **Plagiomnium rostratum** 2-37, (38), 39-51, (52), 53-108, (109), 110-112. HI-11, 13, 14, 16-30, (31), 32-35, (36), 37-40. (C).

119.1 **Pseudobryum cinclidioides** 46, 48, 49, 68-70, (72, 73), 75, 76, 78-83, 88, (89), 90, (91), 92, 93, (94), 95-98, (99), 105, (106), 107-109, 112.

120.1 **Zygodon viridissimus** 1-112, HI-40. C.

120.2 **Zygodon stirtonii** 1-6, 9-16, (17), 18-20, 24-29, 31, (32), 33-37, 39-53, 56, 57, 60, 62-65, (68), 69-77, 79-91, 93-95, (97), 98, (99), 100-109, 111, 112. HI, 2, (3), 4, 5, (6), 8-11, (13), 16-18, 20-23, 25, 27-30, (31), 33-35, 38-40. (C).

120.3 **Zygodon rupestris** 2-14, 16, 17, 19, 21-26, 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. HI-4, 6, 7, (14), 16, 20, 28, 38, 39.

120.4.a **Zygodon conoideus var. conoideus** 1-77, 79-83, 85-88, 90, (91), 93, 95-108, 110, 112. HI-11, (12), 13-40. C.

120.4.b **Zygodon conoideus var. lingulatus** 17.

120.5 **Zygodon gracilis** 64.

121.1 **Codonoblepharon forsteri** (5), 11, 18, 19, 24, (37).

122.1 **Orthotrichum anomalum** 1-112, HI-13, (14), 15-40. C.

122.2 **Orthotrichum cupulatum** 1-8, (9), 11-54, (55), 56-73, (74), 75-85, (86), 87-98, 100-112. HI-31, (32), 33-40. C†.

122.3 **Orthotrichum pulchellum** 1-104, (105), 106-112. HI-23, (24), 25-30, 32-40. C.

122.4 **Orthotrichum columbicum** (13), 20, 24, 56, 57, 61, 63-65, 69.

122.5 **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, (94), 95, 96, 106. HI, 2, 4-6, 8, 9, (13, 20, 21), 28-31, 34, 36, 38-40.

122.6 **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).

122.7 **Orthotrichum diaphanum** 1-98, (99), 100, (101), 102-112. HI-40. C.

122.8 **Orthotrichum scanicum** 17, 57.

122.9 **Orthotrichum rogeri** 14.

122.10 **Orthotrichum pallens** 8, 13, 14, 20, 24, 35, 50, 57, (60, 62), 63-66, 94, 97, (106). H(4), 13, (20), 26.

122.11 **Orthotrichum pumilum** 26, 28, 35, 57, 65, 66, 78.

122.12 **Orthotrichum schimperi** 20, 24, (26), 29, 35, (62, 90), 91.

122.13 **Orthotrichum tenellum** 1-15, (16), 17-53, 55-60, (61), 62-78, 80-83, 86, 88-91, 94, 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.

122.14 **Orthotrichum cambrense** 44.

122.15 **Orthotrichum alpestre** 94.

122.16 **Orthotrichum stramineum** 3-14, 16-73, (74), 75-100, 103-108. H(2, 10), 11-13, 20, 21, 31, (38, 39).

122.17 **Orthotrichum patens** 25, 57.

123.1 **Lewinskya rupestris** 2, (3), 4, (6), 7, 21, (22), 28, (34), 36, (38, 40), 43, 47, 48, (49), 50, 52, 57, (59-61), 63, 65-68, (69-71), 72, (73), 74, 75, 78-83, 85, 86, (87), 88-90, (91), 92-98, (99), 100-112. H(1), 2, 8, 12, 16, (20, 21), 24, (25, 26), 27, (28), 29, 34, 35, (37-39), 40.

123.2 **Lewinskya shawii** (75).

123.3 **Lewinskya striata** 1-36, (37), 38-59, (60), 61-73, 75-77, (78), 79, (80), 81, (82), 83, 84, (85, 86), 87-100, (101), 103-108. H1, 2, (3), 4-13, (14), 15-20, (21), 23, (25), 26, 28-30, (31), 32, 33, 36, 38-40. C.

123.4 **Lewinskya acuminata** 36, 57.

123.5 **Lewinskya speciosa** 9, (13), 14, 20, 24, 25, 28, 29, 57, 58, 62-64, 66, (88-90), 92, (94), 95, 96, 106.

123.6 **Lewinskya affinis** 1-102, (103), 104-111. H1-40. C.

124.1 **Plenogemma phyllantha** 1-98, (99), 100-112. H1-40. C.

125.1 **Pulviger a lyellii** 1-29, (30), 31-50, (51), 52-73, (74), 75-83, 85-98, (99, 100), 101, 103, 105-107, 109. H2, 4-7, (8), 9-13, (14), 18-24, 27, 30-33, 36, (37), 38-40. C.

126.1 **Ulota coarctata** (5, 11), 12-15, 17, 24, 25, (27), 28, 37, 48, 56, (79, 86), 87, 88, (90, 96), 97, 98, 104, 105, (106). H2.

126.2 **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).

126.3 **Ulota drummondii** 42, 43, 45-49, (60), 63, (65), 66-70, 72, (73), 75-83, 85-90, (91), 92-108, (109, 111). H(2, 6, 7, 20), 21, (35, 39).

126.4 **Ulota bruchii** 1-112, HI-40. C.

126.5 **Ulota crispula** 1-3, 5, 6, 9-11, 14, 16, 22, 24-26, 28, 29, 31, 32, 35, 38, 41-49, 53, 55, 57, 61, 62, 64, 65, 69, 71, 79, 82, 83. H20, 21. C.

126.6 **Ulota intermedia** 3, 4, 9-12, 15, 16, 24-26, 36, 38, 40-42, 46, 48, 50, 52, 55-58, 62-64, 67, 68, 71-73, 75, 80, 84, 89, 92, 94, 96, 100, 104-107, 110. HI, (2), 20, 36.

126.7 **Ulota crispa** 1-6, 8-12, 14, 17, 18, 23-26, 28, 29, 31-36, 40, 42-44, 46-52, 54-58, 61-65, 69-72, (73), 75, 76, 80, 81, 83, 85, 87, 88, (97), 98, 100, 104, 105, 110. HI, (2), 20, 21, 35. C.

126.8 **Ulota calvescens** 1, 2, 5, 6, 9, 13, 14, 17, 24, 32, 34-36, 38-40, 42-47, (48), 56-60, 62-65, 67-69, 72-76, (86), 87, 97, 98, 100-105, (106), 108, 110, (112). HI-3, 7-10, 12, 14-18, 20, 24, 26-30, 32-36, (39), 40.

127.1 **Nyholmiella gymnostoma** 92, 96.

127.2 **Nyholmiella obtusifolia** 18, 21, (22-24), 28, 29, 31, (32), 33, (36, 38), 46, 57, 63, (65), 88, (90, 91), 92-96.

128.1 **Orthodontium lineare** 1-102, 106, 107, 109, 110. H2, 5-9, 11, 18-22, 27, 29, 30, 32, 33, 36, (37), 38-40. C.

128.2 **Orthodontium gracile** (3), 14, 34, (39, 40, 50, 51, 55), 58, 64, (68, 70, 75, 77), 83, (86). H33.

129.1 **Leptotheca gaudichaudii** 1†, 2†, 10†, 34†, 105†. HI†.

130.1 **Calomnion complanatum** HI†.

131.1 **Aulacomnium palustre** 1-22, (23), 24-32, (33), 34-112. HI-40. C.

131.2 **Aulacomnium turgidum** (65), 88, 96-98, 103-107, (108).

131.3 **Aulacomnium androgynum** (2, 3), 4-51, 53-70, 72, (73), 75-77, 80, 81, 83-90, (91), 92-97, 99, 100, 104-109. H2, 11, (18), 20, 30, 31, 33, (37-40).

132.1 **Achrophyllum dentatum** 1†.

133.1 **Calypstrochaeta apiculata** 1, 2, 14. H5.

134.1 **Daltonia splachnoides** 41, 42, 44, 46-48, 59, 63, 97-99, 104, 105. HI-6, 8-10, 14, 18, 20, (21), 27, 29, 30, 33, 36.

135.1 **Hookeria lucens** 1-6, 8-17, (18), 22, 24-29, 34-37, (38), 39-52, 55, 57-60, 62-90, (91), 92-112. HI-18, 20, (21), 22, 24-40. C.

136.1 **Cyclodictyon laetevirens** 1, 102. HI, 2, (3, 4, 6), 27, (29).

137.1.a **Fontinalis antipyretica subsp. antipyretica** 1-112, HI-40. C.

137.1.b **Fontinalis antipyretica subsp. gracilis** 1-3, 5, (19), 42-44, 46, (48), 49, 57, (59), 60, (63), 64, 65, 67, (68, 69), 70, (71), 72, (74), 75-79, (80), 83, (88-91), 92, (93), 96, 98, (100), 104, (105, 106), 107, (108), 109, 110, 112. H(7), 9, 16, 25, 27, 34, 35, 39, 40.

137.2 **Fontinalis squamosa** 1-5, (36, 37), 39-50, 57, 58, (59), 60, 62-75, (76), 78-80, 86-88, (89), 90, (91), 92-98, (99), 100-102, 104-110. HI-8, 12, 13, 15, 16, 20, 21, 27, 30, (33, 34), 35, (36, 37), 38, 40.

138.1 **Myurella julacea** (49), 64, (65, 87), 88-90, 92, 94, 96-98, 101, 104, (105, 107), 108, 110. H(6), 28, 29, 34, 40.

138.2 **Myurella tenerrima** 88, (90).

139.1 **Platydictya jungermannioides** 6, 34-36, (40), 41-45, 47, (48, 49), 50, 57, (59), 63-65, (66, 69, 70, 72), 75, (76), 80, 82, (86), 87-90, (92), 94, 96-98, (99), 101, 104, 106, 108, 110. H(2), 3, 11, 28, 29, 33, 35.

140.1 **Orthothecium rufescens** 42, (48), 49, (62), 64, (65), 69, (86), 87-90, (92), 96-99, (103), 104, 105, (107), 108, 111. H9, 28, 29, 33, 35.

140.2 **Orthothecium intricatum** (4), 6, 34-36, 39, 41-44, 46-50, 52, 57, 58, (59), 60, 62-67, 69, 70, (71), 72, (73, 75), 76, (77, 78), 79, 80, 83, 86-92, 94, 96-99, (100, 101), 102-108, 110, 111, (112). HI-3, 6-9, 16, 27-30, 33, (34), 35, 36, 39, 40.

141.1 **Plagiothecium latebricola** 2-27, 31, 32, (33, 34), 35-37, (38), 39, 40, (41), 43-51, 54-58, (59), 62-64, (65), 73, (81, 86). H29.

141.2 **Plagiothecium piliferum** (88, 90).

141.3.a **Plagiothecium denticulatum var. denticulatum** 1-6, (7), 8-50, (51), 52-112. H3, 4, 6, 8, 10, (12), 13, 15, 17-20, 22, (24), 25, 26, 28, 30, 33, (36-38), 39, 40. C.

141.3.b **Plagiothecium denticulatum var. obtusifolium** 2, 4, 42, 44, 46, 48, 49, 64, (65), 69, 70, 72, 75, 78, 86-92, 94-100, (101), 102, 104-106, (107), 108, 110. HI, (3), 7, 8, 16, 27, (35, 40).

141.4 **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, 86-89, (90, 91), 92, 94-96, 98, (99), 101, 105, (106), 109. H8, 20, (21, 33).

141.5 **Plagiothecium curvifolium** 2-40, 42-44, 46-51, 53-70, 72-75, 77-85, (86), 87-96, (98), 99, 103, 106, (107). H20, 29, 36, 40. C.

141.6 **Plagiothecium platyphyllum** 47, 49, (69), 70, 88, 89, (90), 92, 94, 96-99, 105-108. H6, 7, 20, 27.

141.7 **Plagiothecium cavifolium** 1, 2, 26, 27, 42, (46), 47, 48, (49, 60, 62), 65, 69, (70), 78, (81), 82, 83, 88, 90, 92, 93, 95-98, 101, (103), 104-106, 108, 112. HI, 6, 27, 34.

141.8 **Plagiothecium succulentum** 1-28, 30-112. HI-12, 14, 16, (17), 18, 20-22, (24), 25-36, 38-40. C.

141.9 **Plagiothecium nemorale** 1-71, (72), 73-77, 79, (80), 83-87, (88), 90, (91), 92, 93, 95-105, 108, 110-112. HI-11, 13, 15, (16), 19-21, (25), 27, (28), 29, (30), 31, 33-40. C.

141.10 **Plagiothecium undulatum** 1-30, 32, 34-112. HI-10, 12-18, 20-23, 25-40. C.

142.1 **Isopterygiopsis muelleriana** 49, 87-89, (90), 96-98, 103-107, (108). HI, 16, 27.

142.2 **Isopterygiopsis pulchella** (3), 5, 35, 36, 39, 41-50, 57-60, (62), 63-66, (67), 68-70, 72, (73), 75-83, (85), 86-90, (91), 92-108, 110-112. HI-3, 6-8, 10, 16, (20), 27, 28, (29), 30, (33), 34, 35, 38, 39, (40).

143.1 **Pseudotaxiphyllum elegans** 1-112, HI-16, 18, (19), 20-22, (23), 25-40. C.

144.1 **Herzogiella striatella** (71), 86-88, (89), 90, 92, 94, 96-98, (99), 105-108.

144.2 **Herzogiella seligeri** 3, 5-17, (19), 20-29, 31-37, 41, 43, 54, (61), 62.

145.1 **Pterigynandrum filiforme** 24, 26, 29, (42), 49, (57, 68-70, 72), 79, 87-90, 92-98, 104-108, (112). H(20, 21, 38, 40).

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

147.1 **Climacium dendroides** 1-9, 11-20, (21), 22, 23, (24), 25-31, (32-34), 35-112. HI-4, (5), 6, 7, (8), 9, 10, (11, 12), 13-30, 32-40.

148.1 **Myrinia pulvinata** 9, 13, (14, 17, 30), 33-36, 40, (42, 43), 44, 47, 48, 50, (59), 60, (61), 62, (63), 64, 65, 69, (73, 77, 87), 88, 89.

149.1 **Kandaea 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), 97, 98, 101-104, (105), 106-110, 112. H2, (7), 8-10, (12, 15), 16, 17, (18), 19, (20), 21-23, (25), 26, 28, (30), 33-35, (36, 37), 38, (39, 40).

150.1 **Cratoneuron filicinum** 1-112, HI-40. C.

150.2 **Cratoneuron curvicaule** 88.

151.1 **Palustriella commutata** 1-7, 9, (10), 11-15, (16), 17, 19, (20), 22-28, (29, 30), 32-37, (38), 39-112. HI-4, (5), 6-11, (13), 14, 16, (17), 18-23, (24), 25-31, (32), 33-40. (C).

151.2 **Palustriella falcata** (1, 2), 3-5, (6, 7), 9, 11, (12, 14, 18), 22, 23, (25), 26-28, (29), 32, 33, (34), 35-37, (38), 39-50, (51), 52, 53, (54), 55, 57, (58), 59, 60, (61), 62-70, (71), 72-85, (86), 87-112. HI, (2), 3, 8-11, (12, 13), 14, 16-20, 22-31, 33-36, (37, 38), 39, 40.

151.3 **Palustriella decipiens** 88-90, (91), 92, 96, 97, (98), 106.

152.1 **Campylium bambergeri** 88, (89), 90, 92, (96), 97, 98, 108.

152.2 **Campylium stellatum** 1-9, 11-13, (14), 15, (16), 17, (18), 19, 20, 22-29, (30, 31), 32-37, (38), 39-112. H1-3, (4), 5-40. C.

152.3 **Campylium protensum** 1-3, (4), 5, 6, 8-20, (21), 22-24, (25), 26, 28-30, (31), 32-37, (38), 40-42, 44-75, (76), 77, 78, 80-84, (86), 87-92, 94-98, 100-106, 108-112. H1-3, (4), 5, 7-11, 15-23, 25-31, 33-36, (37), 38-40.

152.4 **Campylium chrysophyllum** 1, (2), 3-24, 26-30, 32-70, (71), 73, 75, (76), 79-85, (86), 88, 89, (90), 92, 94, 96-98, 101-105, (106), 107-112. H1, 2, 5, 7-11, (12), 13, (14), 15-19, (20), 21-29, (30, 31), 33-35, (36, 37), 38-40. (C).

153.1 **Amblystegium serpens** 1-112, H1-40. C.

154.1 **Hygroamblystegium fluviatile** 1-6, 17, 18, 21-24, (33, 34), 35-37, (38), 39-51, (52), 55-60, 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.

154.2 **Hygroamblystegium tenax** 1-17, (18, 19), 20-24, 26, 31-60, (61), 62-93, (94), 98, 99, 101, 102, 106, 108, 109, (111). H(1, 2), 5, 6, (7), 8, 10-13, (15), 17, 19, (20), 21, (25), 27, 28, (29), 32, 33, 38-40. C.

154.3 **Hygroamblystegium varium** 1, 3-6, (7), 8-17, 19, 20, (21), 22-38, (39), 40-42, 45, 48-50, (51), 52, 53, (54), 55-58, (59), 60-62, (63), 64-66, (67, 69), 70, (71), 73-75, (80), 81, 83, 88, (89), 90, (91, 97), 98, 99, 101-103, 108, (110). H6, (8), 9, 15, (16, 17), 22, 24-28, 30, (33-38), 39, (40). (C).

154.4 **Hygroamblystegium humile** 3-15, (16), 17-29, 31, 32, 34, 35, (36), 37, (38), 40-42, 47, (48, 50), 51, 53, (54), 55-58, 61, (62), 63, (64, 85, 90), 92, 109. H15, 25, 30, 39, (40).

155.1 **Leptodictyum riparium** 1-70, (71), 72-75, (76), 77, 79-90, (91), 92, 93, 95, 96, 98-100, 103, (104-107), 108, (110), 111, 112. H(1), 2-5, (6), 7-9, 11-15, (16), 17-33, (35), 36-39, (40). C.

156.1 **Conardia compacta** 2, 3, 10, 34, 36, (37, 40), 56, 57, 63, 64, 66, (67, 68), 72, 81-83, 85, 90, (91), 95, 98, 100, 101, 108. H(28).

157.1 **Drepanocladus polygamus** 1, 3, 4, (5), 9, (11, 13-15), 16, 17, (18), 22, (23), 24-29, (31), 35, (37, 38), 39-42, (43), 44-50, 52, 54, 55, 58-60, (61), 62, (64), 67, (68), 69, (70, 71), 73-75, (76, 77), 80-84, (85, 86, 88), 89, (90), 92, 93, 95, 98, 100, (101), 102-112. H1-4, 9, 12, 13, 16, 17, (19), 20, 21, (22), 23, (24, 25), 27, (28), 33-35, (37), 38, (39, 40).

157.2 **Drepanocladus aduncus** 1-49, 51-90, (91), 92, 93, (94), 95, 96, 98, (99), 100, (101), 102-105, 107-112. H1-3, 5-11, (12, 14), 15-25, 27, (28, 29), 30-40. C.

157.3 **Drepanocladus sendtneri** 1, 2, 4, (11, 15, 18, 23, 24, 26-28, 30, 32), 33, 34, (35, 37-39), 41, 43-45, 48, 51, 52, (53, 54), 59, (60-64), 65, (68, 70), 82, (85, 87, 90, 96, 100, 103, 105, 109), 110, 111. H1, 9, 15-18, 21, 23, (24), 25-28, (34-37, 39), 40.

157.4 **Drepanocladus lycopodioides** 1, (3), 4, (11, 25, 27), 28, (38), 41, 45, 52, (54), 59, (60-62, 65-68, 85, 90), 92, 95, (96), 106, 107, (109), 110, (111). H9, 15, 17, (20, 21), 23-27, (35, 37), 38, (39), 40.

157.5 **Drepanocladus turgescens** 60, 88.

157.6 **Drepanocladus trifarius** (86), 87-89, (90), 92, 94, 96-98, (99, 103), 104-108, 112. H9, 16.

158.1 **Tomentypnum nitens** 5, 26, (27), 28, (37), 39, (40), 43, 46, 47, 49, 50, (52, 58, 62, 64, 65), 66, 67, (68), 69, 70, 72, 75, 77-81, 83, 85, 87-89, (90), 91, (92), 93-95, (96), 104, 106, 109. H8, 16, 19, 22, 23, 27, 28, (33), 35.

159.1 **Hygrohypnum luridum** 1-9, 11-73, (74), 75-112. H1-5, (6), 7, (8), 9-11, 13, (14), 15-17, 19-21, (22), 23-25, (26), 27-31, (32), 33, (34), 35-37, (38), 39, 40.

159.2 **Hygrohypnum styriacum** 96.

160.1 **Platyhypnum smithii** 88, (89), 90, 92, 96-98, 105.

160.2 **Platyhypnum molle** 92, 94, 96, 97.

160.3 **Platyhypnum duriusculum** 48, 49, (65), 68, (69), 70, 72, 88, 90, (91), 92, 94-98, 105, 106, 108, (112). H1, (2), 27.

161.1 **Serpoleskea confervoides** (2, 3), 6, (7, 16), 22, (23), 33-36, 39-42, 44, 45, 50, 57, 60, (62, 64), 65, 66, 69, (70, 90), 94. H8, 9, 15, (21), 33.

162.1 **Campylophyllopsis calcarea** 3, 5-8, (10, 11), 12, (13), 14-17, (18), 19, 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.

163.1 **Campylophyllum halleri** 88, (90), 97.

164.1 **Pseudocampylium radicale** 2, 41, 44-46, 48, 49, 107, 109.

165.1 **Microhypnum sauteri** 108.

166.1 **Warnstorfia fluitans** 1-9, 11-14, (15), 16-22, 24, 27, 28, 30, (34), 35-55, 57-70, (71), 72-84, (85), 86-90, (92), 93-100, (101), 102-112. H1, 2, (3), 6, (7), 10, 12, (13, 15), 16-21, 23-25, 27, 30, 31, (32), 33-35, 38-40.

167.1 **Sarmentypnum exannulatum** 1-5, (6), 8, 9, 11-13, 17-19, (20), 22, 23, (25, 26), 27, 28, (30), 34-36, (37), 38-55, 57-84, (85, 86), 87-90, (91), 92, 93, 95-98, (99), 100-112. H1-4, (5), 6, 7, (8), 9, 10, 12, 14-16, 18-22, (24), 25-40.

167.2 **Sarmentypnum sarmentosum** 1, 2, 42-51, (52), 60, 64-67, 69, 70, (71), 72-76, (77), 78, 79, (85), 86-92, 94-112. H1-3, 16, (20), 26-30, 34, 35, (38, 39).

168.1 **Straminergon stramineum** 1-6, (7), 8, 9, (10), 11-17, (18-21), 22, 24, 25, 27, 28, 30, 34-50, (51), 52, 54-112. HI, 2, 4-6, (7), 9, 10, 12-18, 20-23, (24), 26-40.

169.1 **Calliergon cordifolium** 1-28, 30-32, 34-87, (88), 89-104, (105), 106-112. H2, 3, (4), 5-7, (8), 9, 10, 12, 13, (15), 16-18, 20, (21), 22-25, 27-34, 36-40.

169.2 **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), 56-60, (61), 62, 64-70, (71), 72-90, (91), 92, 94-104, 106, 108-112. HI, 4, 6, (7), 8-11, 13-19, (20), 21-40.

170.1 **Sanionia uncinata** 1-4, 6, 9, 11-13, (14), 15, (16-19), 22, 24, 25, (26), 27-29, 31-37, (38), 39-52, 54, 56-60, 62-112. HI, 2, 4, 6, 7, (8), 9, 10, 12, 14, (15-17), 18, 20, (21), 22, (24), 25, 26, 28-30, (31), 32, 33, (34), 35, 36, (37), 38-40.

170.2 **Sanionia orthothecioides** 91, 93, 94, 104, (105), 108-112.

171.1 **Hygrohypnella ochracea** 1-5, 35, 36, 39, 41-51, 57-60, 62-110, 112. HI-10, (12), 13, 15, 16, (19), 20, 21, 27, (31), 33-36, 38-40.

171.2 **Hygrohypnella polaris** 105.

172.1 **Hamatocaulis vernicosus** 3-5, (11, 15), 27, 38-50, 52, (57, 58, 60), 63, (64), 65, 67, 69, 70, 72, 73, 75, 76, 78-80, (83), 86, 88-90, (91), 96, 98, 99, (100), 103, 104. H6, (12), 15, 16, 20, 22, 23, 27, 30, 34, 35, 38, 39.

173.1 **Scorpidium revolvens** 1-5, 9, 11, 12, 17, 27, 28, (29), 35, 36, 39-50, (54), 57, (58, 59), 60, 62-70, 72-81, (83, 85), 86-92, 94-98, 100-112. HI-3, (4, 5), 6, 7, 9, 10, 12, 14-16, (17), 18, 20, 21, (23), 26-31, 33-40.

173.2 **Scorpidium cossonii** 1, (3), 4-6, 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. HI, (2, 7), 8-10, (11), 14-16, (17), 18, 19, (20), 22-29, 31-35, (37), 38-40.

173.3 **Scorpidium scorpioides** 1, (2), 3, 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. HI-3, (4), 9, 10, (11), 13-19, 21-35, (36, 37), 38-40.

174.1 **Leskea polycarpa** 1-70, (71), 72, (73, 74), 75-90, (91), 93, 95, 96, 98, 99. HI-9, 11-13, 15, 18-22, 24-30, (31), 32-40. (C).

175.1 **Lescurea patens** 88, 90, 92, 96-98, 105, 106.

175.2 **Lescurea incurvata** (80), 88-90, (92, 94), 97.

175.3 **Lescurea saxicola** (88).

175.4 **Lescurea plicata** 88-90, 97.

176.1 **Pseudoleskeella catenulata** 64-66, 69, 70, 88-90, 92, 94, 96, (97, 98), 108.

176.2 **Pseudoleskeella rupestris** 49, (69), 88-90, 92, 94, 96-98, 104, 105, 108.

176.3 **Pseudoleskeella nervosa** 92.

177.1.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.

177.1.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.

178.1 **Thuidium tamariscinum** 1-112, H1-40. C.

178.2 **Thuidium delicatulum** 1-5, (6), 9, 11, (12), 17, 25, 34, 35, 40, 42-50, (52), 57, 59, 60, 64-66, (67), 69, 70, (71), 72-84, 86-89, (91), 96-110, 112. H1-3, (6), 7, (8, 9), 10, 12, 15, 16, 18-20, 25-29, (30, 31), 32-36, 38-40.

178.3 **Thuidium assimile** (3, 4), 5, 6, (7), 8, (9, 10), 11-15, (16), 17, (19), 20, (21), 22-24, (25, 26), 27-30, (32), 33-35, (36), 37, (38, 39), 40-44, 46-52, (54, 55), 57, 60, (61), 62-70, 72-74, (75), 80-85, (86), 87-90, 92, 94, 97, 98, (100), 101-106, (107), 108-110. H1, (7), 8, (9), 10, 11, (14, 16), 17-20, 22-25, 28, (32), 34, (35, 37), 38-40.

178.4 **Thuidium recognitum** 6, (34), 35, 50, 51, 57, 60, 64, (69, 86, 87), 88, 90, 92, 96-98, 104, 105, (106, 107), 108. H(9), 16, (26, 29), 33-35, 40.

179.1 **Helodium blandowii** (58, 62, 64, 65).

180.1 **Pseudoscleropodium purum** 1-112, H1-40. C.

181.1 **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, 31. C.

182.1 **Plasteurhynchium meridionale** 9.

182.2 **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, (16), 17, (20), 25, 26, 28, 29.

183.1 **Eurhynchium striatum** 1-112, H1-40. C.

184.1 **Rhynchostegium riparioides** 1-112, H1-13, (14), 15, 16, 18-40. C.

184.2 **Rhynchostegium alopecuroides** 1-5, (35, 36), 41-50, 57-60, 63, (69-71), 73-75, 80, (91, 92), 94, 98, 105-108. H1, 2, 5, 6, 12, 16, 19-21, 27, 33, (35).

184.3 **Rhynchostegium murale** 1-70, (71), 72, (73), 74, 76-78, 80-85, (86), 87, (88-91, 95), 98, (99), 100, (101), 102, (103), 104, (106, 108, 111), 112. H1, (2, 4, 7, 8), 9, 10, (12, 14, 15), 17, 18, (19), 20-29, 33, (34, 36-38), 39. (C).

184.4 **Rhynchostegium confertum** 1-78, (79), 80-90, (91), 92-94, (95), 96-105, (106), 110-112. H1-13, (14), 15-29, (30), 31, 33-40. C.

- 184.5 **Rhynchostegium megapolitanum** 1-6, (7), 8-31, 34, (37, 38), 41, 44-46, 48-54, 57-60, 62, 64, (67, 71, 73, 75), 81, 82, 85, (90). H(1), 5, 6, 12, 20, 21, (33). C.
- 184.6 **Rhynchostegium rotundifolium** (6), 14, 33.
- 185.1 **Rhynchostegiella tenella** 1-66, (67), 68-86, 88-91, (97), 98-106, 108, 110. HI-40. C.
- 185.2 **Rhynchostegiella litorea** 2, (3), 5, (6), 10-14, (15, 16), 17, 19, (21), 22, (23), 29.
- 185.3 **Rhynchostegiella curviseta** 2-6, (7), 8-15, (16), 17, 19, 22-25, 29, (30), 32-34, (35, 36), 37, (38), 39, 40, 46, 56, 57, (62). H(33, 39). (C).
- 185.4 **Rhynchostegiella teneriffae** 1, (2), 3, 5-9, 11-14, 22-24, 29, 32-37, (38), 39-47, 49, (50), 51, 52, (53), 57, (58), 59, 60, (61), 62-66, (67), 68-70, 72, (73), 75-77, 80-83, (85, 86), 87, (88), 89, 90, (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.
- 186.1 **Cirriphyllum piliferum** 1-111, HI-12, (13), 14-29, (30), 31-36, (37), 38-40. C.
- 186.2 **Cirriphyllum crassinervium** 1-60, (61), 62-71, (72, 73), 75-77, 79-85, (86), 87-91, 93-105, (106), 108, (111), 112. HI-11, (12), 13, 15-17, (18), 19-28, (29), 30, (32), 33, 35, (36, 38-40). C.
- 187.1 **Microeurhynchium pumilum** 1-75, (76), 77, 78, 80-85, 87-91, 93-95, 97, 98, (99), 100-105, (106), 108-112. HI-13, (14), 15, (16), 17-23, 25, 27-31, (32), 33-40. C.
- 188.1 **Oxyrrhynchium hians** 1-112, HI-40. C.
- 188.2 **Oxyrrhynchium schleicheri** 3-17, 19, 20, 22-24, (27), 33-37, 40-44, 46, 47, 50, 58, 60, 62, 64, (67, 68), 69, 79, (80), 81. HI0.
- 188.3 **Oxyrrhynchium speciosum** 1-3, 5-17, 19-32, (33), 34-41, (42), 43-47, (48), 49, 52-58, (59), 60, 61, (62), 63-65, (68), 69-71, (73), 74, 75, 81, (90), 91, (98, 101), 102, 103, 111, 112. H2, 4, 5, (6), 8, 9, 14, 15, 17, 18, (19), 20, 21, (22), 25, 28, 32, (35, 36), 37, (38), 39, (40). C.
- 189.1 **Kindbergia praelonga** 1-112, HI-40. C.
- 190.1 **Sciuro-hypnum starkei** 88, 90, 92, 97, (105), 106.
- 190.2 **Sciuro-hypnum glaciale** 88, 90, 92, 94, 96-98, 105, 106.
- 190.3 **Sciuro-hypnum reflexum** 88-90, 92, 96-98, (105), 106, 107.
- 190.4 **Sciuro-hypnum populeum** 1-9, 11-30, (31), 32-60, (61), 62-70, (71), 72-91, (92), 93-110, (111), 112. HI-5, (6), 7-13, 16, (19), 20-27, 29, (30), 31-33, (34), 35-40. C.
- 190.5 **Sciuro-hypnum plumosum** 1-6, 8, 9, 11, 13-17, 32, 34-50, (51), 52, (53, 54), 55, 57-60, (61), 62-112. HI-16, 18, 20, (21, 24), 25-40. C.

191.1 **Brachythecium albicans** 1-85, (86, 87), 88-112. HI, 3-6, 9, 12, 16, (19), 20-22, 27, 28, 31, 34, 35, (37), 38-40. C.

191.2 **Brachythecium erythrorrhizon** (108).

191.3 **Brachythecium glareosum** 1-3, (4, 5), 6-18, (19), 20, (21), 22-24, (25), 26-47, (48), 49-55, 57, 58, (59), 60-69, (70, 72), 75, (77, 79), 80-83, 85, 87-90, (91), 94-98, (100, 101), 102-106, 108, 110. HI, (2, 3, 6), 7, (8), 9, 15, 16, (18), 19, 20, (21), 22, (25), 26-29, (31), 33-35, (38), 39, 40. (C).

191.4 **Brachythecium salebrosum** (3, 9), 12-14, (15), 17, 20, 22-36, (37), 38, 40, 44, (54), 57, (62), 63, 64, (66), 67, (80), 88, (90), 92.

191.5 **Brachythecium mildeanum** 1-20, 22-60, (61), 62, 64-67, (68, 69), 70, 73-75, (81, 82), 83, 85, 86, (88), 90, 94, 95, (96), 97, 100, 102, (104), 105-112. H(I), 2, 4-8, 10, 11, 13, 16-21, (22), 23, 26-28, 34, 35, (37), 39, 40. (C).

191.6 **Brachythecium rutabulum** 1-112, HI-40. C.

191.7 **Brachythecium rivulare** 1-112, HI-13, 15-40. C.

191.8 **Brachythecium cirrosum** 88, 98, 105, 106.

192.1 **Scleropodium cespitans** 1-40, 42-50, 52, 54-58, (59), 61, (62), 63, 64, (65), 67, 68, 70, 72, 73, 75, 79-81, 98, 99. H2-7, 9, 12, (13), 20, 21, 28-30, 33, 35, 36, 38, 39. C.

192.2 **Scleropodium touretii** 1-6, (7), 8-11, (12), 13-17, (18-20, 22, 23), 24, (26-29, 33), 34-37, (38), 40-52, (71), 74, 75, 81, (88). H3-5, (6, 12, 21, 37, 39). C.

193.1 **Eurhynchiastrum diversifolium** (26), 89, 90, 92, 104. H40.

194.1 **Brachytheciastrum velutinum** 1-70, (71), 72, 73, 75-99, 101-104, 106-109, 111, 112. H9, 18, 20, (21), 28, (37-39). C.

194.2 **Brachytheciastrum trachypodium** (88), 96-98.

195.1 **Homalothecium sericeum** 1-112, HI-40. C.

195.2 **Homalothecium lutescens** 1-71, 73, 75, (77, 78), 79-88, (89), 90-99, 101-112. HI-31, 33-35, (37), 38-40. C.

196.1.a **Hypnum cupressiforme var. cupressiforme** 1-112, HI-40. C.

196.1.b **Hypnum cupressiforme var. lacunosum** 1-75, (76), 77-112. HI-13, (14), 15-31, 33-40. C.

196.1.c **Hypnum cupressiforme var. heseleri** 28, 29.

196.1.d **Hypnum cupressiforme var. resupinatum** 1-112, HI-40. C.

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

196.3 **Hypnum uncinulatum** HI-3.

196.4 **Hypnum jutlandicum** 1-112, HI-40. C.

196.5 **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).

197.1 **Taxiphyllum wissgrillii** 3-17, 19, 20, (21), 22-24, 33-37, (38), 39-45, 47-53, 56, 57, (58, 59), 60-66, (67, 68), 69, 70, 72, (73, 75, 77), 80-84, (85), 86-90, 93, (97), 98, 101, 103, 104, (108). H(2), 5, 7, 9, 11, 16, (21), 23, 28-30, 33, 34, (38, 39), 40.

198.1 **Platygyrium repens** 6-8, 10-17, 19-38, 40, 42, 50, 53, 54, 57, 81, 82.

199.1 **Stereodon callichrous** 44, 46, 48, 49, (50, 51, 64, 68), 69, 70, (72), 73, 78, 80, (85), 86-90, 92, 94, 96-108, 110, 111. HI, (2), 3, 16, 27, (28, 29, 34, 35).

199.2 **Stereodon hamulosus** (48), 49, (64), 69, 70, 87-89, (90, 91), 92, (94), 96-98, (103), 104-106, (107), 108. H27.

200.1 **Pseudohygrohypnum eugyrium** 4, 36, 42, 44, 45, 47-50, 64-66, 68-70, 72, 73, (74), 75, 76, 78-80, (81), 83, 86-90, (91), 92, 95-100, 102-108, 110, (112). HI-3, 6, (7), 8, 16, 20, 27, (31), 33-36, (38), 39.

200.2 **Pseudohygrohypnum subeugyrium** (36), 48, 49, 70, 72, 73, 87, 96-99, (101), 103-105, 107, 108.

201.1 **Calliergonella cuspidata** 1-112, HI-40. C.

201.2 **Calliergonella lindbergii** 1-5, (6, 7), 8-17, (18, 19), 20, 22, 23, (24), 30, 31, 33-37, (38), 39-53, 55, 57-60, 62-70, (71), 72, 73, (74), 75-88, (89), 90, 93, (94), 95-98, (99), 100-108. HI-5, (6), 7, (8), 9, (10), 11-14, (15), 16, 18, 20-23, 25-29, (31), 32-40.

202.1 **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, 61-63, (64), 65-68, (69, 70, 73-75, 78), 79-83, (85), 88-91, 94. (C).

203.1 **Homomallium incurvatum** (64), 65, 66, 69, (70, 87-89), 90.

204.1 **Roaldia revoluta** 88.

205.1 **Buckia vaucheri** 88, 89, 94.

206.1 **Pseudostereodon procerrimus** 88, 96.

207.1 **Ptilium crista-castrensis** (26), 28, 34, 47-49, 54, 57, 60, (62), 63, 64, (65), 67, 69, 70, 72, (73), 78-81, 83, 85-90, (91), 92, (93), 94-99, 101-108. H27.

- 208.1 **Sematophyllum demissum** 48, 49. HI-3, 16.
- 208.2 **Sematophyllum substrumulosum** 1-14, 16, 23, 24, 27-30, 34-36, 38, 41, 44-46, 48, 52, 55, 57. HI, 2, 12, 13, 38, 40. C.
- 209.1 **Pleurozium schreberi** 1-31, (32), 33-112. HI-40. (C).
- 210.1 **Rhytidiadelphus squarrosus** 1-112, HI-40. C.
- 210.2 **Rhytidiadelphus subpinnatus** (36), 41, 42, 44, 45, 47, 48, (57, 58), 60, 64, (65), 69, 70, 86, 98. H(6).
- 210.3 **Rhytidiadelphus loreus** 1-18, 20, (21), 22-112. HI-22, (24), 25-40. C.
- 211.1 **Hylocomiadelphus triquetrus** 1-17, (18), 19, 20, (21), 22-112. HI-40. C.
- 212.1 **Loeskeobryum brevirostre** 1-9, (11), 12-15, (16), 17, (20), 22, (23), 24, 29, 32-35, (36), 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. HI-20, (21), 22-31, (32), 33-37, (38), 39, 40. (C).
- 213.1 **Hylocomiastrum pyrenaicum** 88-90, 92, 96-98, (104), 105, 106, (107).
- 213.2 **Hylocomiastrum umbratum** 46-50, 64, 69, 70, 72, 73, 75, 76, 78-80, 86-90, 92, 94-106, (107), 108, 110. HI, 2, 16, 20, 27, 28, (29), 35, (39).
- 214.1 **Hylocomium splendens** 1-17, (18), 19, 20, (21), 22-112. HI-40. (C).
- 215.1 **Hageniella micans** 48, 70, 86, 87, 97-99, 101, 103-105. HI-3, 16.
- 216.1 **Rhytidium rugosum** 6, (23), 26, 28, (29, 36, 39), 49, 57, (59), 60, (64), 65, 66, 69, 70, 82, (85), 86-90, (92, 96), 97, 98, 103-106, (108). H40.
- 217.1 **Entodon concinnus** 6-17, 19, 20, 22-24, 29, 30, 32-34, (36), 37, (38, 39), 40, 41, 49, 50, (52), 53, 54, (55), 56, 57, (59), 60, (61), 62, 64-67, 69, 70, (71), 72, 79-83, 85-90, 92, 97, 98, (101), 102-110. HI, (6), 7, (8), 9, 10, 13, 15-17, 19, (20), 21-31, 33-35, 38-40.
- 218.1 **Cryphaea heteromalla** 1-77, 79-86, (87), 88, 89, (90), 97-100, (101-103), 104, (106), 110. HI-40. C.
- 219.1 **Dendrocryphaea lamyana** 2-4, 44-46.
- 220.1 **Nogopterium gracile** 1-4, (5), 6, 7, 9-13, (14), 16, (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. HI-4, 6-8, (13), 16, 20-22, 27, (28, 31, 33), 35, (38, 39). C.
- 221.1 **Leucodon sciuroides** 1-17, (18), 19, 20, (21), 22-30, (31), 32-50, 52-59, (60), 61-66, (67, 68), 69, 70, (71), 72, (73), 75, (76), 78-83, (85), 87-94, (95), 96, (97), 98, 101, 102, (103), 104, 105, (106), 107, 108. H(3), 6, 7, (9), 11, (14, 16), 18-20, (21), 22, 23, 31, 33, (39). C.

222.1 **Antitrichia curtipendula** 2, 3, (4), 6, (10), 12, 13, (14), 15, (17-23, 25), 26, (27), 28, 29, (32, 33), 34, 35, (36-40), 42, (45), 46, (47), 48-50, (52, 55), 57, (60, 62), 63-65, (66), 67, (68), 69, 70, 72, 73, 75, 77-81, (82), 83, (85), 86, (87), 88-90, (91), 92-99, (101), 103-112. HI, 3, 6, 7, (12, 20, 28, 32), 33, (34, 36, 39), 40.

223.1 **Neckera pennata** (90).

223.2 **Neckera pumila** 1-18, (19), 20, 22-25, (27), 32-37, 40-50, 52, (55), 57-59, (60, 62), 63-65, 67, 69, 70, 72, 73, 75, 78, 80, 85, (86, 87), 88-91, 96-99, 101-105, 111. HI-15, (16), 17-20, (21), 22-34, 36-38, (39), 40. C.

223.3 **Neckera crispa** (1, 2), 3-17, 20, (22), 23, 24, 26, 30, 31, 33-37, 39-53, (54, 55), 56-70, (71), 72-83, (85), 86-90, (91, 92, 94), 96-106, (107), 108-110, (111). HI-3, (4, 5), 6-11, 14-18, 20, 23-31, 33-36, (37), 38-40. C†.

223.4 **Neckera complanata** 1-112, HI-40. C.

223.5 **Neckera smithii** 1-6, (7), 8-15, 17, (18), 22, (23), 28, 41, 45, (48), 49, 52, 69, (70). H(3), 6, 9. (C).

224.1 **Homalia trichomanoides** 1-94, 96-104, 106, 108, 111, 112. HI-6, 8-12, (13), 14-16, 18-29, 31-34, 36-40. C.

225.1 **Thamnobryum alopecurum** 1-112, HI-40. C.

225.2 **Thamnobryum maderense** 39, 42, 45, 55, 63.

225.3 **Thamnobryum angustifolium** 57, 70.

225.4 **Thamnobryum cataractarum** 64.

226.1 **Pseudanomodon attenuatus** 70, (88), 90.

227.1 **Heterocladiella dimorpha** (87), 88-90, 96, 97, (99).

228.1 **Heterocladium heteropterum** 1-6, 13-16, 34-37, 39-52, 55, 57-60, 62-84, (85), 86-93, 95-112. HI, 3, (4, 5), 6-8, (9), 10-13, (14), 16, 20, 21, 25-29, (30), 31, 33-36, (37), 38-40. C.

228.2 **Heterocladium flaccidum** 1-6, 9, 12-14, (15), 16, 17, 24, 34-37, 39-52, 57, 60, 62, (63), 64-70, (71), 72-75, 77-84, 86-90, 95-105, (106), 108. HI-3, (5), 6, 8-11, 13, 16, 20, 21, 25-29, 31-40. C.

228.3 **Heterocladium wulfsbergii** 1-5, 41-50, (59), 63, (68), 69-71, 73, (86, 87), 88, 96, 97, 101, 102, 104, 105, 108, 110. HI-3, 6-8, 20, (21, 22), 27, 35, 40.

229.1 **Isothecium myosuroides** 1-112, HI-40. C.

229.2 **Isothecium interludens** 4, 42, 44, 48, 49, 70, (72), 73, 75, 78, 81, (85), 86, 88-90, 92-94, (95), 96-100, (101), 102-112. HI-4, 6-8, 10, 11, 13, 16, 20, 27-30, 33-36, 38-40.

229.3 **Isothecium alopecuroides** 1-112, HI-40. C.

229.4 **Isothecium holtii** 2-5, 42-50, 57, 63, 64, 69, 70, (72), 73, (74), 75, 78, 86, 87, (88), 94-99, 105-108, (109). HI-3, 6, 20, 21, 27, 35, 38, (40).

230.1 **Ctenidium molluscum** 1-70, (71), 72-112. HI-40. C.

231.1 **Hyocomium armoricum** 1-6, 11, 13-16, 34-36, 39-50, 57-60, 62-75, (76), 77-80, 86-92, 95-108, 110, (111), 112. HI-10, (11), 12-16, 18, 20, 21, 25-40.

232.1 **Myurium hochstetteri** 97, 103, 104, 108, 110. H(16).

233.1 **Anomodon longifolius** (6), 34, 35, (36), 57, 63, (64), 65, 66, 88-90.

233.2 **Anomodon viticulosus** 1-17, (18), 19-37, (38), 39-54, (55), 56, 57, (58), 59-70, (71), 72, 73, 75-83, 85-90, (91), 92-105, (106), 108, 110. HI-11, 13-31, (32), 33, (35), 36, 37, 39, (40). C.