

# New vice-county records

## Hepaticae

- 1.1. *Haplomitrium hookeri*. 103: rare on damp gravelly ground by stream, 150 m alt., Poll nan Craciann, Achnacraig, Mull, NM719298, 2007, Bosanquet.
- 3.2. *Herbertus aduncus* subsp. *hutchinsiae*. 112: On grassy bryophyte-rich slopes, N-facing, ca 250 m alt., Da Sneug, Foula, HT9497339829, 2007, Payne.
- 7.2. *Kurzia sylvatica*. 103: peat at edge of loch, ca 15 m alt., NE shore of Loch Ba, NM575376, 2007, Kungu. 110: peat bank in blanket bog, ca 100 m alt., to N of the Pentland Road, NB33773455, 2007, Kungu. H6: boulder on N-facing slope below lip of corrie, ca 450 m alt., Coum Iarthar, S3112, 2007, Hodgetts 7238.
- 8.3. *Lepidozia cupressina*. 92: in crevices of heathy scree on steep, N-facing slope, 330 m alt., N-facing slopes of Creag Ghiubhais, Deeside, NO31059575, 2007, Rothero 17027.
- 9.1. *Bazzania trilobata*. H20: steep slope in N-facing woodland, ca 140 m alt., Upper Lake, Glendalough, T108960, 2007, Hodgetts 7108.
- 10.6. *Calypogeia sphagnicola*. 109: growing on surface of *Sphagnum fuscum* hummock, Maol Donn, Forsinard RSPB, NC987453, 2006, Payne.
- 10.7. *Calypogeia suecica*. 103: on soggy, rotting log on floor of woodland, ca 50 m alt., in lower part of valley Eas Mor above Port Donain, Ardura-Achnacraig SSSI, NM7329, 2007, Preston.
- 10.8. *Calypogeia arguta*. 33: edge of ditch, Fire Service Training College, Moreton-in-Marsh, SP228324, 2007, Landsdown, Porley & Rumsey.
- 12.4.b. *Cephalozia macrostachya* var. *spiniflora*. H9: occasional on bog developed in old peat cuttings, 20 m alt., N of Bohyodaun, R156566, 2007, Bosanquet & Preston.
- 12.6. *Cephalozia lunulifolia*. 32: on rotting log in deciduous woodland, High Wood, nr Preston Capes, 2007, Blackstock.
- 12.7. *Cephalozia pleniceps*. 103: through *Sphagnum subnitens* on base-flushed valley side, 40 m alt., Cnoc Mor, Mull, NM408194, 2007, Bosanquet. 103: in *Sphagnum* mire, Leac nam Brathairean, NM7231, 2007, Lawley.
- 13.1. *Nowellia curvifolia*. 61: on decorticated log in mixed woodland with *Lepidozia reptans* and *Lophoclea bidentata*, Brantingham Dale, N of Brantingham, SE9486430846, 2007, Wall.
- 14.1. *Cladopodiella fluitans*. H23: with *Sphagnum capillifolium* and *Odontoschisma sphagni* in wet bryophyte carpet at edge of small unshaded hollow in surface of raised bog, ca 65 m alt., W of Crosswood, N08084031, 2007, Holyoak 07-264.
- 17.3. *Odontoschisma elongatum*. H12: at edge of flush in shallow S-facing valley, with *Drepanocladus revolvens* and *Riccardia multifida*, ca 440 m alt., Croghan Mountain, T12597240, 2007, Hodgetts 7281.
- 18.4. *Cephaloziella hampeana*. 110: creeping amongst *Sphagnum* in blanket bog, ca 100 m alt., Allt Loch nan Geadh, NB3236, 2007, Hodgetts 7157. H21: creeping through *Sphagnum subnitens* in degraded burned heath, ca 580 m alt., Seahan Mountain, O084197, 2007, Hodgetts 7037.
- 18.11. *Cephaloziella turneri*. H20: scattered shoots and patches on dry, vertical, crumbling soil on SW-facing bank by path through ancient oak woodland, ca 120 m alt., Glen of the Downs, O26261120, 2007, Hodgetts 7087.
- 21.2. *Barbilophozia kunzeana*. 112: With *Warnstorfia fluitans* at edge of tiny pool, ca 410 m alt., summit of Da Sneug, Foula, HT9475739461, 2007, Payne.
- 21.8. *Barbilophozia barbata*. 25: Tunstall Heath, TM3854, 1923, Mayfield. 63: on thin soil on surface of low, half-shaded grit boulder, 255 m alt., Abbey Brook, Howden Moors, Upper Derwent Valley, SK176921, 2007, Blockeel 36/571.
- 23.6. *Lophozia excisa*. 75: in cushions of *Dicranum scoparium* on ledges of crag, 290 m alt., NW slopes of Glenmuck Craig, SE of Dalmellington, NS498034, 2007, Rothero 17168.
- 23.13. *Lophozia bicrenata*. 93: delete, as record in *Field Bryology* 93 (2007) is situated in 92 (M.O. Hill, in litt. 2007).
- 24.3. *Leiocolea bantriensis*. 103: in highly calcareous flush, with *Palustriella commutata* var. *commutata*, ca 160 m alt., SW of Meall Reamhar, Ardura-Achnacraig SSSI, Mull, NM72122968, 2007, Preston.
- 24.6. *Leiocolea heterocolpos*. 67: sandstone rock face,

- 130 m alt., on W bank of River South Tyne, 200 m upstream of bridge, Featherstone Bridge, NY674617, 2007, Bosanquet.
- 24.7. *Leiocolea badensis*. H7: locally frequent on damp edges of forestry track, 200 m alt., Boherboy wood track, Carrignagapple, S335342, 2007, Bosanquet. H13: with *Aneura pinguis* on bare soil on bank by moorland road, ca 340 m alt., N side of Mount Leinster, nr Carrolls Cross, S8356, 2007, Blockeel 36/540.
- 25.1. *Gymnocolea inflata*. H21: mainly bare peaty soil in partly burnt area of old quarry, ca 50 m alt., E of Howth village, O29803897, 2007, Holyoak 07-446.
- 31.1. *Mylia taylorii*. H12: hollow among granite boulders, ca 650 m alt., NE side below the summit of Mount Leinster, S8352, 2007, Blockeel 36/550. H13: hollow among granite boulders, ca 700 m alt., NW side below the summit of Mount Leinster, S8252, 2007, Blockeel 36/547.
- 32.7. *Jungermannia sphaerocarpa*. 43: damp shale cliff beside stream, Giwern Hill, SO092591, 2007, Lawley.
- 34.1.b. *Marsupella emarginata* var. *aquatica*. 57: on dripping shale, by Torside Reservoir, Torside Clough, SK0697, 2007, Blockeel & Wall.
- 34.1.c. *Marsupella emarginata* var. *pearsonii*. 103: stream, N side of Ben More, Mull, NM5135, 2007, Fisk.
- 34.9. *Marsupella stableri*. 103: on damp, sheltered sides of rocks in stable scree, 760 m alt., N coire of Ben More, Mull, NM52853321, 2007, Rothero 17077.
- 34.11. *Marsupella adusta*. 73: on smaller rocks in acid scree on N-facing slope, 650 m alt., Craggs on NE side of Beninner, 6 km NE of Carsphairn, NX606972, 2007, Rothero 17170.
- 35.4. *Gymnomitron crenulatum*. H20: on big boulder nr lake in NE-facing corrie, ca 570 m alt., Lough Ouler, O08970207, 2007, Hodgetts 7118.
- 38.1. *Scapania compacta*. H31: unshaded soil over low slaty rocks on cliff top, nr low *Festuca*, *Calluna* and *Erica cinerea*, ca 15 m alt., Clogher Head, O17318456, 2007, Holyoak 07-173.
- 38.11. *Scapania nemorea*. 61: on north church wall, Lowthorpe Church, NE of Driffield, TA0760, 2007, Wall.
- 38.12. *Scapania irrigua*. H24: damp peat in old peat diggings, almost unshaded at base of *Agrostis stolonifera*, *Molinia* and *Juncus effusus*, ca 45 m alt., Forthill Bog, N06515839, 2007, Holyoak 07-311.
- H32: on partly bare peat on moorland slope, ca 270 m alt., S slope of Eshmore, H55494167, 2007, Holyoak 07-167.
- 38.15. *Scapania undulata*. H32: on part-shaded sandstone boulders 5–10 cm above water level in moorland stream, ca 285 m alt., Barratitopy Upper, H56484231, 2007, Holyoak 07-158.
- 38.18. *Scapania paludosa*. 112: Spring at head of flush with *Pohlia wahlenbergii*, ca 100 m alt., slopes SSW of Ristie, Foula, HT9560040768, 2007, Payne.
- 38.23. *Scapania nimbosea*. 103: with *Sphagnum* in grassy heath amongst scree on N-facing slope, 740 m alt., N coire of Ben More, Mull, NM52793328, 2007, Rothero 17076.
- 40.4. *Lophocolea semiteres*. 84: on base of conifer in shaded, humid conditions, ca 170 m alt., Easter Inch Moss nr Seafield, NT001663, 2007, Flagmeier. 100: on exposed roots of large conifer, 30 m alt., Pine conservation area, Mount Stuart, Bute, NS1059, 2007, Rothero 17153.
- 40.4A. *Lophocolea brookwoodiana*. 17: in short grassland in cemetery, Brookwood Cemetery, NW of Guildford, 2004, Sheahan (Paton & Sheahan, 2006).
- 40.5. *Lophocolea fragrans*. 69: among bryophyte mat including *Heterocladium* and *Porella cordaeana* on slate rocks on banks of small stream, ca 20 m alt., SE of track through Lane Park Wood, SW of Cartmel, SD37057794, 2002, Nelson. H9: among *Lejeunea lamacerina* on soil of stream bank, 67 m alt., Coolderor Bridge, Lissycasey, R227665, 2007, Bosanquet.
- 41.2. *Chiloscyphus pallescens*. H22: base of *Carex*, *Festuca*, *Molinia* and herbs, ca 50 m alt., N of Duleek, O04156915, 2007, Holyoak 07-450.
- 44.1. *Saccogyna viticulosa*. H13: humus on shaded rocks on wooded bank, ca 20 m alt., E bank of River Barrow, NE of Tinnahinch, S7244, 2007, Blockeel 36/553.
- 46.4. *Plagiochila britannica*. 33: rocks associated with quarrying at the top of escarpment in beech woodland, Nottingham Scrubs, SO911087, 2007, Landsdown. 45: two patches on small stumps nr natural limestone outcrops, 35 m alt., Mount Sion Covert, Castlemartin, SR91702 95718, 2007, Bosanquet. 80: on calcareous mossy dyke, open river bank, ca 110 m alt., S bank of Tinnis Burn below Redmoss Bridge, Liddesdale, NY45898381, 2007, Long & Kungu 36522.

- 46.6. *Plagiochila atlantica*. 99: on S-facing rock in woodland nr river, 90 m alt., N side of Douglas Water, Loch Lomond Woods SAC, NS33859771, 2007, Rothero 17039.
- 46.7. *Plagiochila spinulosa*. H13: sparsely among *Saccogyna* on heavily shaded rocks on wooded bank, ca 20 m alt., E bank of River Barrow, NE of Tinnahinch, S7244, 2007, Blockeel 36/554.
- 46.8. *Plagiochila killarniensis*. 110: rock outcrops in cliffs above beach, ca 20 m alt., N coast of Great Bernera, NB135402, 2007, Kungu. H11: on sheltered rock face on N-facing wooded bank, 10 m alt., banks of River Nore, Inistioge, S6337, 2007, Blockeel 36/531.
- 51.1. *Radula complanata*. 59: on bark of deciduous tree in park, with *Zygodon conoideus* and *Ulota phyllantha*, ca 95 m alt., Chadderton Hall Park, SD895063, 2007, Blockeel 36/586.
- 51.2. *Radula lindenberghiana*. 45: frequent over ca 1 m x 30 cm of S-facing shale cliff by road, 15 m alt., Llawhaden, SN741172, 2007, Bosanquet.
- 51.3. *Radula voluta*. 103: on moist soil on edge of stream, lightly shaded, 20 m alt., Ravine of Lian Mor, Loch Spelve, Mull, NM675259, 2007, Cameron.
- 52.1. *Ptilidium ciliare*. H6: small patch over rock on E-facing slope below cliffs in corrie, ca 400 m alt., Monavullgh Mountains, Farbreaga, S28490472, 2007, Hodgetts 7275. H12: edge of rock in heathy grassland on SW-facing hillside, ca 450 m alt., Croghan Mountain, T13017232, 2007, Hodgetts 7282.
- 53.2. *Porella cordaena*. H7: boulders on shore of small corrie lake, ca 480 m alt., NE corrie, Knockmealdown, S06400864, 2007, Hodgetts 7199.
- 53.3. *Porella arboris-vitae*. 75: on more or less basic rock below ash tree in gully through crags, 290 m alt., NW slopes of Glenmuck Craig, SE of Dalmellington, NS498034, 2007, Rothero 17167.
- 53.5. *Porella pinnata*. H32: on side of boulder ca 20 cm above water in stream, partly shaded by woodland edge, ca 70 m alt., Rossmore Forest Park, H653316, 2007, Holyoak 07-237.
- 54.5. *Frullania dilatata*. H31: 1.5 m above ground on lightly shaded branch of *Crataegus monogyna* in hedgerow beside pasture nr river, ca 7 m alt., Drumcar Bridge, O06659118, 2007, Holyoak 07-187.
- 56.1. *Marchesinia mackaii*. 47: in small quantity on base-rich sandstone, N side of Llyfnant Valley, SN716976, 2007, Forster-Brown.
- 59.1. *Microlejeunea ulicina*. 30: on the middle branches, ca 10 m from ground, of a newly fallen oak, 200 m alt., Whipsnade, nr Dunstable, TL016184, 2007, Tipper. 32: on *Salix caprea*, Irchester Country Park, S of Wellingborough, SP915660, 2007, Stern. 32: on elder, 90 m alt., Whiston Quarry, SP842603, 2007, Flagmeier. 83: on leaning trunk of *Corylus*, amongst *Metzgeria temperata*, damp *Betula* woodland, ca 215 m alt., Hermand Birchwood SE of West Calder, NT03146200, 2007, Long, Kungu, Chamberlain & Flagmeier 36440. 110: shaded base of rock outcrop on NE-facing coastal cliffs, ca 5 m alt., Camas Bostadh, NB1340, 2007, Hodgetts 7160.
- 60.1. *Lejeunea cavifolia*. 54: base of coppiced ash, Swinn Wood, TF423779, 2007, Rieser.
- 61.1. *Colura calyptrifolia*. H12: on stem of *Ulex* in extensive gorse thicket, ca 260 m alt., summit of Slievecoilta, 6 km S of New Ross, S726211, 2007, Blockeel 36/559. H32: on bark 1.5 m above ground on *Salix cinerea* on bank of moorland stream, ca 285 m alt., Barratitoppy Upper, H56484231, 2007, Holyoak 07-156.
- 62.3. *Cololejeunea minutissima*. 12: on *Fraxinus* with *Orthotrichum* spp. on steep bank just above footpath, Short Lythe (NT), Selbourne, SU7431 3389, 2007, Rumsey & Rumsey. 29: epiphytic on willow in damp hollow, ca 3 m alt., Ettesley Local Nature Reserve, Whittlesea, TL28189652, 2007, Stevenson. 59: on bark of deciduous tree in park, ca 90 m alt., Chadderton Hall Park, SD895064, 2007, Blockeel 36/584. 74: among *Metzgeria* on *Alnus* in soakway through Sitka Spruce plantation, ca 50 m alt., S of Doon of May fort in woods S of Mochrum Loch, NX294513, 2007, Kungu.
- 63.1. *Aphanolejeunea microscopica*. H20: damp, shaded rock face nr stream in NE-facing birch woodland, ca 350 m alt., Luggala, O154085, 2007, Hodgetts 7072.
- 64.9. *Fossombronina incurva*. 25: damp gritty soil by pool, Tunstall Forest, TM382538, 2007, Fisk.
- 66.3. *Pellia endiviifolia*. H24: unshaded, sloping clay of bank just above water level of canal, among patchy low grasses and herbs, ca 55 m alt., by Royal Canal just S of Archies Bridge, N13595797, 2007, Holyoak 07-297A.
- 69.1. *Blasia pusilla*. 45: 40+ plants on damp forestry track, 30 m alt., Gallt Sere, Abercych, SN239408, 2007, Bosanquet.
- 70.1. *Aneura pinguis*. H21: with *Bryum pseudotriquetrum* on damp sand of path at edge of dune slack,

- among low sedges and grasses, ca 2 m alt., S part of North Bull Island, O22603610, 2007, Holyoak 07-415.
- 71.1. *Cryptothallus mirabilis*. 27: alder carr woodland growing under a downy birch (*Betula pubescens*) in *Sphagnum squarrosum* hummock, ca 1 m alt., Catfield Hall Estate, TG3725521370, 2007, Ellis.
- 72.1. *Riccardia multifida*. H21: damp burnt heath with patchy vegetation on base of N-facing Cambrian metamorphic rock in old quarry, lightly shaded, ca 50 m alt., E of Howth village, O29783897, 2007, Holyoak 07-445.
- 72.2. *Riccardia chamedryfolia*. 33: N-facing slope in calcareous grassland, 150 m alt., Swift's Hill/Elcott NR, SO876067, 2007, Landsdown.
- 72.4. *Riccardia palmata*. 40: on rotten log in deciduous woodland, Wyre Forest, SO707767, 2007, Fraser. 40: decorticated log, Wooler's Batch, Long Mynd, SO406891, 2007, Fraser. 81: on log in burn, wooded ravine, ca 30 m alt., Peased Dean below Pease Bridge, NT79217012, 2007, Long, Kungu & Flagmeier 36457.
- 73.1. *Metzgeria fruticulosa*. H7: on rowan in gully, 290 m alt., below Sheegouna, S316312, 2007, Bosanquet. H12: on stem of *Ulex* in extensive gorse thicket, ca 260 m alt., summit of Slievecoiltia, 6 km S of New Ross, S726211, 2007, Blockeel 36/560. H22: bark 1.0–1.5 m above ground on *Salix cinerea* tree in edge of wet pasture, ca 125 m alt., S of Drumone, N56017406, 2007, Holyoak 07-128.
- 73.2. *Metzgeria temperata*. H20: epiphytic on birch in swampy woodland by river, ca 130 m alt., Gledalough, Seven Churches, T1296, 2007, Hodgetts 7115.
- 75.1. *Sphaerocarpos michelii*. 14: from soil between paving stones, Spencer Road, Eastbourne, TV610980, 2007, Spiers, det. Matcham. 14: from soil between paving stones, Milnethorpe Road, Eastbourne, TV 600975, 2007, Spiers, det. Matcham. 29: stubble field nr ruined church, Ashley, 2007, Fisk & Preston.
- 76.1. *Targionia hypophylla*. 40: cliff edge, Earl's Hill, SJ410048, 2007, Lawley.
- 77.1. *Lunularia cruciata*. 110: on side of shaded stream gully nr beach, ca 3 m alt., Loidse Griaies, Griaies, Isle of Lewis, NB49419, 2007, Pool. H23: almost unshaded steep soil on bank above stream, ca 120 m alt., E of Carrick, N55437057, 2007, Holyoak 07-129.
- 80.1. *Reboulia hemisphaerica*. 94: on soil amongst limestone blocks on S-facing slope of ravine, 400 m alt., Water of Ailnack, W of Tomintoul, NJ154157, 2007, Rothero & Amphlett 17112.
- 81.1. *Preissia quadrata*. H20: on crumbling mortar in old building in disused lead and silver mine workings, ca 170 m alt., mine workings above Upper Lake, Glendalough, T0896, 2007, Hodgetts 7099.
- 82.1.a. *Marchantia polymorpha* subsp. *polymorpha*. H23: on mass mat at base of *Carex*, *Eriophorum* and *Phragmites* in fen on lough shore, ca 35 m alt., by S edge of Doonis Lough, N09575380, 2007, Holyoak 07-365.
- 82.1.b. *Marchantia polymorpha* subsp. *ruderalis*. H32: partly bare stony soil in lawn on road edge, in light shade of planted woodland, ca 70 m alt., Rossmore Forest Park, H653316, 2007, Holyoak 07-236.
- 84.7. *Riccia sorocarpa*. 21: arable field, S of Harefield, TQ057885, 2007, Duckett.
- 84.9. *Riccia glauca*. 21: arable field, S of Harefield, TQ057885, 2007, Duckett. 80: on soil, margin of stubble field, ca 89 m alt., Bow Bridge nr Maxton, NT62083040, 2007, Long, Kungu & Flagmeier 36432. 103: disturbed soil nr car park, Aros Park, nr Tobermorey, Mull, 2007, Fisk.
- 84.10. *Riccia subbifurca*. 16: Bare mud with *Physcomitriella patens* on sides of inflow stream, N end of Bough Beech Reservoir, W of road, TQ4848, 2007, Duckett & Pressel. 69: sandy glacial till, E shore nr Humphrey Head, SD392734, 2007, Nelson.
- 85.1. *Anthoceros punctatus*. 110: bank of ditch along track onto peat cuttings, ca 55 m alt., peat track to the W Griaies, NE of Lewis, NB4864342682, 2007, Pool, det. Kungu.
- 85.2. *Anthoceros agrestis*. 69: arable field (barley) on reclaimed saltmarsh, ca 5 m alt., SW of Holy Well Lane, nr Humphrey Head, SD385749, 2007, Nelson.
- 86.1. *Phaeoceros laevis*. 110: on bank of ditch by peat road, ca 65 m alt., W of Griaies, NB486426, 2007, Pool.
- 86.2. *Phaeoceros carolinianus*. 69: arable field (barley) on reclaimed saltmarsh, ca 5 m alt., SW of Holy Well Lane, nr Humphrey Head, SD385749, 2007, Nelson.

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## Reference

- Paton, J.A. & Sheahan, M.C. (2006). *Lophocolea brookwoodiana* (Jungermanniales: Geocalycaceae), a new species to Britain. *Journal of Bryology* 28, 163–166.

# Musci

Unless otherwise stated, all records are from 2007.

- 1.1. *Sphagnum austinii*. 110: Among bog pool complex in area of blanket bog, 100 m alt., Allt Loch nan Geadh, NB32483599, Hodgetts NG 7154.
- 1.3. *Sphagnum papillosum*. H21: Degraded burned wet heath, 580 m alt., Seahan Mountain, O08381966, Hodgetts NG 7035; H32: in unshaded *Sphagnum* carpet in ditch beside forestry track in moorland, among patchy *Calluna*, 285 m alt., Barratitoppy Upper, H56564233, Holyoak DT 07-150.
- 1.5. *Sphagnum magellanicum*. 59: in mire, Belmont Head flushes and mires, SD66351862, Jepson P, det. Newton.
- 1.6. *Sphagnum squarrosum*. 32: in bog in small plantation, 120 m alt., nr West Farndon, SP515505, Gent G, det. Higgs.
- 1.7. *Sphagnum teres*. 86: in base-rich flush by burn, 280 m alt., upper Banton Burn, SE of Tomtain, Kilsyth Hills, NS725806, Chamberlain DF *et al.* E; 110: Basic flush in small coastal valley, 10 m alt., Gabhsann bho Thuath, valley NE of NB4459, Hodgetts NG 7168; H6: Flush on N-facing slope just above riverbank, with *Hamatocaulis vernicosus*, *Juncus* spp, etc, 300 m alt., Comeragh Mts, River Nire, below Coumfea, S27701151, Hodgetts NG 7231; H28: in calcareous flush by river, 85 m alt., Easky River, G393277, Lockhart N 2007/01a.
- 1.9. *Sphagnum girgensohnii*. H6: Cushion amongst boulders and heather on N-facing slope above corrie lake, 470 m alt., Comeragh Mts, Knockan-affrin, Coumduala Lough, S29411432, Hodgetts NG 7213.
- 1.10. *Sphagnum russowii*. H12: steep bank amongst granite rocks, 650 m alt., Mount Leinster, NE side below summit, S8352, Blockeel TL 36/551.
- 1.12. *Sphagnum warnstorffii*. 110: Basic flush in small coastal valley, 10 m alt., Gabhsann bho Thuath, valley NE of, NB4459, Hodgetts NG 7167.
- 1.13.a. *Sphagnum capillifolium* subsp. *capillifolium*. H9: a few large mounds on old cut-over bog, 320 m alt., Cloonybreen, S of Toor Hill, R086830, Bosanquet SDS, Preston CD & Doogue D.
- 1.14. *Sphagnum fuscum*. 110: nr pools in blanket bog, 100 m alt., to the N of Pentland Road, NB327359, Kungu EM S459.
- 1.15.a. *Sphagnum subnitens* var. *subnitens*. H32: partly shaded by *Calluna* & young *Salix cinerea* on edge of ditch beside forestry track in moorland, 285 m alt., Barratitoppy Upper, H56514235, Holyoak DT 07-147.
- 1.16. *Sphagnum skyense*. H6: Steep heathy ground below N-facing conglomerate rock face between corries, 540 m alt., Comeragh Mts, Lough Coumfea, S28010991, Hodgetts NG 7227, conf. Hill.
- 1.21. *Sphagnum inundatum*. 109: in small flushed area in mire, SW corner of Plantlife Reserve at Munsary, ND220422, 2003, Payne AG.
- 1.22. *Sphagnum denticulatum*. 37: in pool in woodland, Wyre Forest, SO758763, Lawley M, det. Fraser, conf. Hill.
- 1.25. *Sphagnum tenellum*. H32: on unshaded edge of low sandstone rock on damp slope in moorland, 285 m alt., Barratitoppy Upper, H56484233, Holyoak DT 07-159B.
- 1.31. *Sphagnum flexuosum*. 80: in mire on watershed, 250 m alt., S of Barnes Lochs, Stobs, NT48440737, 2003, Corner RWM, conf. Hill; 110: Rushy ground at edge of blanket mire, 70 m alt., Tom a' Mhile, NB45, Hodgetts NG 7165, det. Hill.
- 1.32. *Sphagnum angustifolium*. 93: in rushy patch at edge of remnant bog in conifer plantation, 155 m alt., Waggle Hill, NJ802462, 2006, Bosanquet SDS & Preston CD; 107: in mire, Little Rogart nr Golspie, NC722038, 2003, Payne AG; 109: in mire, head of Meur a'Gheoidh E of Loch Sletill, RSPB Forsinard, NC96654707, 2005, Payne AG; H6: Flush on N-facing slope, with *Hamatocaulis vernicosus*, 340 m alt., Comeragh Mts, Sgillige Loughs, below, S28411188, Hodgetts NG 7229.
- 1.34. *Sphagnum riparium*. 92: in small spring at base of slope in open pine woodland, 250 m alt., nr Water of Tanar, Glen Tanar, NO44709367, Rothero GP 17005.
- 2.2.a. *Andreaea rupestris* var. *rupestris*. H21: Rock in heathland on summit of hill, 645 m alt., Seahan Mountain, O081197, Hodgetts NG 7040.
- 2.6.a. *Andreaea rothii* subsp. *rothii*. 103: on a boulder, Leac nan Brathairean, Mull, NM7229, Lawley M; H6: Boulder among streams on E-facing slope below corrie, 360 m alt., Comeragh Mts, Coumshingaun Lough, S333110, Hodgetts NG 7253; H12: on granite boulder, 650 m alt., Mount Leinster, NE side below summit, S8352, Blockeel TL 36/549; H21: Rock outcrop nr summit of hill,

- with *Grimmia trichophylla*, 450 m alt., Three Rock Mountain, O1723, Hodgetts NG 7048.
- 2.6.b. *Andreaea rothii* subsp. *falcata*. H21: Rock in upland heath, 550 m alt., Seahan Mountain, O0820, Hodgetts NG 7039.
- 3.2. *Pogonatum aloides*. H31: on partly bare soil on bank above stream, in part-shade of mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081158, Holyoak DT 07-226.
- 3.3. *Pogonatum urnigerum*. H31: unshaded soil among rocks on N-facing hillslope with patchy grasses, 490 m alt., Clermont Cairn, J09951587, Holyoak DT 07-194.
- 4.1. *Polytrichum alpinum*. H21: Peaty bank by track at edge of conifer plantation, 580 m alt., Seahan Mountain, O078194, Hodgetts NG 7032.
- 4.2. *Polytrichum longisetum*. 43: on peat at side of path, Radnor Forest SSSI, SO204643, Lawley M; 108: dense carpet on peat by outflow from lochan, Loch Crocach area, Forsinard, NC81234422, Payne AG.
- 4.5.a. *Polytrichum commune* var. *commune*. H21: Wet grassy ditch at edge of conifer plantation, 490 m alt., Seahan Mountain, O074200, Hodgetts NG 7029.
- 4.5.b. *Polytrichum commune* var. *perigoniale*. 103: on track by road, 20 m alt., N of Coladoir Bog, Mull, NM557306, Bosanquet SDS (BBS visit); H7: Dry margin of track in heath above conifer plantation, 200 m alt., Knockshane, Glenmoylan, S04611132, Hodgetts NG 7194; H12: Soil at edge of track in forestry plantation, 280 m alt., Croghan Mountain, T1471, Hodgetts NG 7284; H21: Burnt peaty bank in degraded heathland, 520 m alt., Seahan Mountain, O08702010, Hodgetts NG 7030; H23: W of Carn Park, N1042, Holyoak DT 07-380B.
- 4.6. *Polytrichum piliferum*. H21: Peaty bank by track at edge of conifer plantation, 580 m alt., Seahan Mountain, O078194, Hodgetts NG 7031; H21: unshaded thin soil over sloping, S-facing outcrop of Cambrian metamorphic rock, 25 m alt., SW coast of Howth peninsula, O26993711, Holyoak DT 07-431; H32: in tiny crevice of unshaded sandstone boulder beside moorland track, 295 m alt., S slope of Eshmore, H55034186, Holyoak DT 07-164.
- 4.7. *Polytrichum juniperinum*. H7: bank by forestry track, 2 m alt., Boherboy Wood track, Carrignapple, S335342, Bosanquet SDS.
- 4.8. *Polytrichum strictum*. 17: in valley bog with *Sphagnum magellanicum* and *S. papillosum*, 50 m alt., Thurs-ley Common, SU908415, Duckett JG, Pressel S & Matcham HW; H31: unshaded top of low peaty hummock on NW-facing slope in *Calluna* moorland, 495 m alt., Clermont Cairn, J09831584, Holyoak DT 07-205.
- 5.1. *Oligotrichum hercynicum*. H21: Peaty bank by track at edge of conifer plantation, 580 m alt., Seahan Mountain, O078194, Hodgetts NG 7033.
- 10.2. *Buxbaumia viridis*. 94: on dead rowan, wood by the Giant's Chair nr Dufftown, NJ32353826, Taylor S, conf. Amphlett; 106: on birch log, nr path down to Rogie Falls, NH4435 5835, Genney D.
- 12.2. *Pleuridium subulatum*. H32: partly bare loamy soil at edge of road verge by car park, lightly shade by poplar tree, 70 m alt., Rossmore Forest Park, H654315, Holyoak DT 07-245.
- 14.2. *Ditrichum pusillum*. 2: open china-clay spoil, with sparse low vegetation, nr flooded pit, 235 m alt., Park China Clay Pit, SE of Whitebarrow Downs, SX197704, Holyoak DT 07-122.
- 14.7.a. *Ditrichum zonatum* var. *zonatum*. H20: Dripping rock face on N-facing cliff nr top of corrie, 900 m alt., Lugnaquilla Mountain, T02879185, Hodgetts NG 7136.
- 14.10. *Ditrichum gracile*. H31: unshaded S-facing slope on sand dune, with patchy low grassland, 5 m alt., nr Baltray, O14927730, Holyoak DT 07-406.
- 19.2. *Bruchia vogesiaca*. 2: on damp, gritty soil of steep, unshaded, low bank at edge of river, 205 m alt., by De Lank River, SX1175, 2006, Holyoak DT 06-231. New to British Isles.
- 20.1. *Rhabdoweisia fugax*. H20: Rock crevices in cliffs and boulders in vicinity of waterfall, both above and below, 200 m alt., Powerscourt Waterfall, O1983 1201, Hodgetts NG 7080.
- 20.2. *Rhabdoweisia crispata*. H20: Rock crevices in N-facing cliff nr top of corrie, 900 m alt., Lugnaquilla Mountain, T02939192, Hodgetts NG 7135.
- 21.3. *Cynodontium jenneri*. 92: in crevice in block scree, 280 m alt., on SW-facing slope above Tüllich Burn, Tüllich by Ballater, NO38459875, Rothero GP 17018.
- 23.1. *Dichodontium pellucidum*. H21: Peaty edge of track at margin of conifer plantation, 580 m alt., Seahan Mountain, O078194, Hodgetts NG 7034.
- 23.2. *Dichodontium flavescens*. 80: on calcareous rock nr river, 130 m alt., S bank of Tinnis Burn below Redmoss Bridge, NY454845, Flagmeier *et al.* 71; H11: in wet, rock crevice on N-facing wooded bank, 10 m alt., bank of River Nore at Inistioge, S6337, Blockeel TL 36/535; H20: Among rocks by small

- stream below N-facing cliff, 420 m alt., Maulin, Raven's Glen, O17971327, Hodgetts NG 7063; H6: By small streams in shaded gully on N-facing slope, 400 m alt., Comeragh Mts, Coum Iarthar Loughs, S31331214, Hodgetts NG 7239.
- 25.4 *Dicranella crispa*. Delete 67, locality is v.c. 68 comm. O'Reilly
- 25.6. *Dicranella varia*. H31: unshaded soil among rocks on N-facing hillslope with patchy grasses, 490 m alt., Clermont Cairn, J09951587, Holyoak DT 07-198.
- 25.7. *Dicranella staphylina*. H24: on partly bare stony soil at base of wall of ruin, by concrete path; part-shaded by walls, 60 m alt., W of Elfeet, N01456016, Holyoak DT 07-288.
- 25.10. *Dicranella heteromalla*. H31: on humic soil at base of conifer trunk in open mixed coniferous & deciduous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-216.
- 26.1. *Dicranoweisia cirrata*. 110: on trunk of *Tilia* and *Acer* in parkland, 10 m alt., nr woodland centre in Stornoway Castle grounds, Lewis, NB422331, Kungu EM S458.
- 28.1. *Kiaeria falcata*. H6: On giant boulders in glacial moraine at mouth of corrie, 490 m alt., Comeragh Mts, Knockanaffrin, Coumduala Lough, S29411454, Hodgetts NG 7211; H20: Granitic rock above mountain lough in N-facing corrie, 700 m alt., Mullaghcleevaun, Cleevaun Lough, O06900732, Hodgetts NG 7067.
- 28.2. *Kiaeria blyttii*. 103: on boulder in scree, N-facing coire on Ben More, Mull, NM5233, Lawley M.
- 29.5. *Dicranum majus*. 56: in seasonally wet woodland with *Salix* and *Betula*, 9 m alt., former gravel pit, Daneshill lakes, SK6687, Blockeel TL 36/108.
- 31.4. *Campylopus fragilis*. H23: with other mosses on peaty soil of low bank in open *Betula* woodland, 65 m alt., E of Baronstown Demesne, N34016240, Holyoak DT 07-338.
- 31.5.a. *Campylopus pyriformis* var. *pyriformis*. H32: on unshaded, partly bare, disturbed peaty soil by moorland roadside, among patchy grasses & herbs, 295 m alt., S slope of Eshmore, H55114183, Holyoak DT 07-163.
- 31.6. *Campylopus flexuosus*. H31: vertical peaty soil of low bank facing N on hillslope, slightly shaded by *Calluna*, 490 m alt., Clermont Cairn, J09851587, Holyoak DT 07-202.
- 33.1. *Leucobryum glaucum*. H32: forming low hummock on open moorland slope, with *Calluna*, *Erica tetralix*, *Molinia* & *Sphagnum capillifolium*, 270 m alt., S slope of Eshmore, H55284168, Holyoak DT 07-160A.
- 33.2. *Leucobryum juniperoides*. 10: on acid clay in oak woodland, Briddlesford Copse, SZ54769048, Sanderson NA; 103: on woodland bank, Gracnan Ramh, Gruline N of Loch Ba, NM561392, Chamberlain DF (BBS meeting).
- 34.2. *Fissidens viridulus*. 61: on soil over chalk pebbles with *F. taxifolius*, by track, Brantingham Dale, N of Brantingham, SE948308, Wall C, det. Blockeel; H24: damp part-bare soil at base of wall beside parking area nr canal; part-shaded, 60 m alt., by Royal Canal nr Draper's Bridge, N21455913, Holyoak DT 07-345; H31: on near-vertical soil of bank ca 1.5 m above stream, shaded by Hawthorns, 7 m alt., nr Drumcar Bridge, O06689114, Holyoak DT 07-191.
- 34.4. *Fissidens pusillus*. 49: on rock in stream, Afon Hen nr Gyrn Goch, Llyn Peninsula, SH412480, Fraser L, conf. Orange; 86: on rocks in river, N side of River Carron, Carron Glen SWT reserve, NS790832, Chamberlain DF *et al.* E
- 34.5. *Fissidens gracilifolius*. 45: rare on damp limestone on buttress in cave, 15 m alt., Little Hoyle, SN111003, Bosanquet SDS; 61: on church wall, Lowthorpe Church NE of Driffield, TA0760, Wall C 34-5; 80: on shaded overhanging calcareous rocks on wooded river bank, 112 m alt., S bank of Tinnis Burn below Redmoss Bridge, NY45738393, Long DG & Kungu E 36520.
- 34.6. *Fissidens incurvus*. H7: thin soil over limestone, 20 m alt., Quarryford Bridge, Newinn, S057340, Bosanquet SDS.
- 34.8. *Fissidens curnovii*. H31: among stones 10–20 cm above water of stream, between boulders, part-shaded by mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081158, Holyoak DT 07-227B.
- 34.9. *Fissidens rivularis*. 86: on rocks in cascading small burn, by path on N side of River Carron, Carron Glen SWT reserve, NS7883, Chamberlain DF *et al.* E
- 34.10. *Fissidens monguillonii*. H25: mud part-shaded in edge of tall stand of *Phragmites*, on bank of river, 35 m alt., nr Devenish Island, M98232885, Holyoak DT 07-332.
- 34.18. *Fissidens dubius*. 75: in crevices of ± base-rich crag, 290 m alt., NW slopes of Glenmuck Craig, SE of Dalmellington, NS498034, Rothero GP 17163;

- H20: Damp, shaded rock face nr stream in NE-facing birch woodland, 350 m alt., Luggala, O154 085, Hodgetts NG 7073.
- 35.1. *Octodicerus fontanum*. 33: on concrete apron of bridge, Gloucester-Sharpness canal, SO778107, Lansdown RV, det. Smith AJE.
- 36.4. *Encalypta vulgaris*. 21: one small tuft only on inclined stone capping of churchyard wall, St Mary's churchyard, Paddington Green, London W2, TQ267818, Rumsey FJ.
- 37.1. *Eucladium verticillatum*. H21: on tufaceous patch ca 20 cm above water of ditch on base of roadside wall, 25 m alt., E of Howth village, O29283905, Holyoak DT 07-442.
- 38.1.b. *Weissia controversa* var. *crispata*. H7: rare on limestone wall with *Encalypta streptocarpa* etc, 200 m alt., Rocklow Church, S192367, Bosanquet SDS; H9: on mortar of N-facing church wall, Kilmihil Old Church, R109640, Bosanquet SDS & Preston CD.
- 38.1.c. *Weissia controversa* var. *densifolia*. 41: locally abundant on metal-toxic spoil, 20 m alt., site of former Dillwyn Smelter, Llansamlet, SS677963, Bosanquet SDS.
- 38.2. *Weissia perssonii*. 106: on earthy ledge on rock outcrop, Hillockhead, Black Isle, NH757608, 2006, Payne AG, conf. Chamberlain.
- 38.3. *Weissia rutilans*. 45: in damp gravelly area on coastal slope, 60 m alt., just NW of Pen-y-graig, Ceibwr Bay, SN112465, Bosanquet SDS; H9: flushed verge on N side of R473, 40 m alt., Aughalogue Bridge, NE of, R1156, Bosanquet SDS & Preston CD.
- 38.4. *Weissia condensa*. H5: on floor of disused quarry, 60 m alt., Nutgrove quarry N of Glanworth, R769 080, 2006, Hodgetts NG 6830, conf. Chamberlain.
- 38.5.b. *Weissia brachycarpa* var. *obliqua*. 32: on ant-hill on bank of railway cutting, Woodford Hulse, SP542517, Lawley M.
- 38.6. *Weissia squarrosa*. 34: in ruts shaded by grass in well-vegetated set-aside, Orange Grove Barn, Ledgemore, ST863966, Lansdown RV.
- 38.12.a. *Weissia longifolia* var. *longifolia*. 33: on soil in disturbed ground at base of recently planted tree, Overley Wood, Cirencester Park, SO970045, 2006, Lansdown RV, conf. Holyoak.
- 38.12.b. *Weissia longifolia* var. *angustifolia*. 34: in ruts shaded by grass in well-vegetated set-aside, Orange Grove Barn, Ledgemore, ST864966, Lansdown RV.
- 39.1.b. *Tortella bambergeri*. 37: on boulder, beside Dowles Brook, Wyre Forest, SO758767, Lawley M; 40: on rock by stream, Callow Hollow, Long Mynd, SO426920, Lawley M; 43: on rock, Gilwern Hill, SO092591, Lawley M, conf. Bosanquet; 45: sandstone slabs of burial chamber, 3 m alt., Priest's Nose, Manorbier, SS059972, Bosanquet SDS; 63: on low grit boulder in open woodland in moorland clough, 275 m alt., Abbey Brook, Howden Moors, upper Derwent Valley, SK1892, Blockeel TL 36/573; 97: on mortared stone bridge, bridge over River Aline, Ardtornish, NM698476, Lawley M; 98: on limestone rocks with *Targionia* at side of small limestone valley, 20 m alt., nr Miller's Port, Lismore, NM81253749, Long DG & MacKinnon L 36679, conf. Bosanquet; 103: on several rocks in gully, 150 m alt., Poll nan Craicinn, Auchnacraig, Mull, NM719298, Bosanquet SDS (BBS visit); H6: Rock nr top of burn below corrie, 460 m alt., Comeragh Mts, Sgilloge Loughs, below, S290114, Hodgetts NG 7203, conf. Bosanquet; H7: Base-rich boulders in boulder field just above small corrie lake, 500 m alt., Knockmealdown, NE corrie, SO63086, Hodgetts NG 7196, conf. Bosanquet; H9: a few tufts on limestone pavement, 120 m alt., Ballyogan Bridge, R335892, Bosanquet SDS & Preston CD; H16: on boulder in scree on slope with limestone outcrops, 138 m alt., N slope of Minnaunmore, Kylemore Lough, L78525739, Long DG 36793.
- 39.6. *Tortella inclinata*. 33: on level platform in abandoned quarry, 150 m alt., Swift's Hill, Elliott Nature Reserve, SO877067, Lansdown RV, conf. Rumsey.
- 39.8.a. *Tortella flavovirens* var. *flavovirens*. H22: unshaded open area on slope of sand dunes, with patchy grasses, 5 m alt., nr South Bull, O15577583, Holyoak DT 07-395.
- 40.1. *Trichostomum brachydontium*. H21: thin soil over Cambrian metamorphic rock low on sea-cliff slope; almost unshaded, among patchy grasses & *Armeria*, 5 m alt., SW. coast of Howth peninsula, O27303674, Holyoak DT 07-437; H24: W of Cashel, N0060, Holyoak DT 07-279B.
- 40.2. *Trichostomum crispulum*. H21: unshaded dry soil exposed in gaps in short grassland on wall top below sea-cliff, 5 m alt., SW. coast of Howth peninsula, O27313673, Holyoak DT 07-438.
- 41.1. *Pottiopsis caespitosa*. 17: on steep S-facing calcareous grass bank, 125 m alt., Buckland Hills, TQ228525, 2006, Wallis HW, det. Matcham.



- 42.1. *Pleurochaete squarrosa*. 33: in short species-rich turf over oolite, Swift's Hill, Eliott Nature Reserve, SO876066, Lansdown RV; H22: unshaded open area on slope of sand dune, with patchy grassland, 5 m alt., nr South Bull, O15577583, Holyoak DT 07-396; H31: unshaded S-facing slope on sand dune, with patchy low grassland, 5 m alt., nr Baltray, O14927730, Holyoak DT 07-407.
- 44.1. *Dialytrichia mucronata*. 57: on base of alder by river, 95 m alt., River Dove, Norbury, SK123423, Blockeel TL 36/595.
- 45.1. *Pseudocrossidium hornschurchianum*. H24: on partly bare compressed soil of parking area on canal bank, slightly shaded, 55 m alt., by Royal Canal just S of Archies Bridge, N13615797, Holyoak DT 07-294.
- 45.2. *Pseudocrossidium revolutum*. 33: on soil in crevice in roadside wall, Ampney St Peter, SP085013, Lansdown RV, conf. Bosanquet.
- 46.1. *Bryoerythrophyllum recurvirostrum*. H31: mortar of vertical wall of bridge at roadside, part-shaded by tall grasses, 10 m alt., Drumcar Bridge, O06589109, Holyoak DT 07-183.
- 46.2. *Bryoerythrophyllum ferruginascens*. H31: unshaded soil among rocks on N-facing hillslope with patchy grasses, 490 m alt., Clermont Cairn, J09951587, Holyoak DT 07-195; H32: on thin soil overlying concrete of kerb at edge of road, slightly shaded by woodland edge, 70 m alt., Rossmore Forest Park, H653316, Holyoak DT 07-240.
- 50.1. *Gyroweisia tenuis*. 21: on damp stonework of canal, Springwell Lock nr Rickmansworth, TQ 043929, Duckett JG; H9: on mortar of old wall with *Didymodon tophaceus*, 10 m alt., Enistimon, The Cascades, R130884, Bosanquet SDS & Preston CD; H32: on shaded vertical sandstone of mortared stonework of bridge over moorland stream, 285 m alt., Barratitoppy Upper, H56484231, Holyoak DT 07-159A.
- 51.2. *Gymnostomum calcareum*. 32: on small limestone block in old quarry, Ring Haw woodland, TL052974, Godfrey MF.
- 51.3. *Gymnostomum aeruginosum*. H20: Carpet on wet ground in conifer plantation, 320 m alt., Croaghnamoira Mountain, bridge below, T084854, Hodgetts NG 7150.
- 54.3. *Didymodon rigidulus*. H31: on unshaded mortared-stonework of top of parapet of bridge over river, 10 m alt., Drumcar Bridge, O06589109, Holyoak DT 07-182; H32: on top of concrete wall of bridge over stream, slightly shaded by *Salix cinerea*, 285 m alt., Barratitoppy Upper, H56484231, Holyoak DT 07-153.
- 54.4. *Didymodon nicholsonii*. 33: on tarmac in abandoned car park, Cooper's Hill, SO886140, Lansdown RV; 49: on concrete paving by house, 50 m alt., Penmaenmawr, SH714761, Hill MO.
- 54.7. *Didymodon umbrosus*. 35: mortar of damp, shady wall, 20 m alt., Belle Vue Park, Newport, ST 306871, 2006, Bosanquet SDS.
- 54.8. *Didymodon vinealis*. H7: rare on old limestone wall, 80 m alt., Rocklow Bridge, S198363, Bosanquet SDS; H9: mortar on wall top nr church, 15 m alt., Kilrush, Q993551, Bosanquet SDS & Preston CD.
- 54.9. *Didymodon insulanus*. H23: horizontal concrete of path by canal edge, part-shaded beneath bridge, 90 m alt., edge of Royal Canal at Ballina Bridge, N388510, Holyoak DT 07-255; H31: soil in crevices ca 1.3 m above ground in roadside stone wall, shaded by edge of deciduous woodland, 75 m alt., just N of Ravensdale, J089132, Holyoak DT 07-230.
- 54.10. *Didymodon luridus*. H9: old wall by lough, 20 m alt., Knockerra Lough, east end, R062574, Bosanquet SDS & Preston CD; H24: on unshaded very thin soil over horizontal masonry on canal bank, 55 m alt., by Royal Canal just S of Archies Bridge, N13595797, Holyoak DT 07-296A.
- 54.12. *Didymodon sinuosus*. 72: at base of dry stane dyke in garden, 48 m alt., Dala, Hightae, NY096787, Kungu EM E; H24: on limestone boulders, lightly shaded in scrub above lake shore, 37 m alt., W of Loughfarm, N010598, Holyoak DT 07-274.
- 54.13. *Didymodon tophaceus*. H24: with other low mosses on top of small limestone boulder in grassland at edge of turlough; almost unshaded, 50 m alt., S of Carrownphull (Cordara Turlough SAC), N02866331, Holyoak DT 07-308.
- 54.14. *Didymodon spadiceus*. H20: Wet rocks by small stream on NE-facing slope, 450 m alt., Maulin, Raven's Glen, O17671330, Hodgetts NG 7062.
- 54.17. *Didymodon ferrugineus*. 83: on mossy conglomerate rocks in steep sided ravine, 315 m alt., below upper waterfall on Logan Burn, Pentland Hills, NT18236184, Long DG *et al.* 36641; H7: locally frequent with *Trichostomum crispulum*, *Ditrichum gracile* etc. on lime-rich road verge just N of junction, 80 m alt., Quarryford Bridge, Newinn, S057340, Bosanquet SDS.
- 58.3. *Aloina aloides*. H21: unshaded dry soil exposed

- in gaps in short grassland on wall top below sea-cliff, 5 m alt., SW coast of Howth peninsula, O27313673, Holyoak DT 07-439.
- 58.4. *Aloina ambigua*. 24: on chalky soil on steps, 125 m alt., church mound, Edlesborough Churchyard, SP 969190, 2006, Tipper CTW; 40: with *Bryum gemmiferum* on vertical sand face, 15 m alt., Morvil Sandpit, nr Bridgenorth, SO6893, 2006, Bosanquet SDS.
- 59.1. *Leptobarbula berica*. 16: at base of wall on calcareous ground with *Bryum caespiticium*, 150 m alt., Stansted churchyard nr West Kingsdown, TQ607621, Hendy J, det. Matcham; 34: on oolite fragments and pebbles in arable field, 250 m alt., nr Hetty Pegler's Tump, SO792001, Lansdown RV; 45: on vertical limestone in hole at bottom of W face of quarry, 45 m alt., SE of Pricaston, Castlemartin, SR920963, Bosanquet SDS.
- 60.1.e. *Tortula schimperii*. 24: on steep, acid clay bank amidst *Fagus* roots, adjacent to steps by Dell, Burnham Beeches NW of Slough, SU94388451, Rumsey FJ, det. Blockeel.
- 60.5. *Tortula marginata*. 32: at base of low wall under trees, 80 m alt., Bugbrooke churchyard, SP674573, Carter RH.
- 60.8.b. *Tortula muralis* var. *aestiva*. 33: on walltop, edge of Tesco car park Cirencester, SP022017, Lansdown RV.
- 60.11. *Tortula atrovirens*. H6: steep loamy soil facing S of 'hedgebank' on top of sea-cliff; unshaded, 20 m alt., N of Ardoginna Head, X16527702, Holyoak DT 07-76.
- 60.14. *Tortula viridifolia*. 111: Crumbling skeletal soil among rocks above HWM on low W-facing cliff, with *Weissia perssonii*, 5 m alt., Sanday, Ness of Brough, HY6542, Hodgetts NG 7180.
- 60.15. *Tortula modica*. 89: on exposed soil on ledge on rock slab on crumbling volcanic crags, 176 m alt., head of Glen of Rait, SW of Kinnaird, NO20642776, Long DG *et al.* 36481.
- 60.16. *Tortula truncata*. H32: on unshaded, disturbed, gravelly soil at edge of moorland track, with patchy grasses & herbs, 295 m alt., S slope of Eshmore, H55114183, Holyoak DT 07-162.
- 60.18.b. *Tortula acaulon* var. *pilifera*. 33: on disturbed ground below *Acer palmatum*, Batsford Arboretum, SP184336, 2006, Lansdown RV.
- 60.18.c. *Tortula acaulon* var. *schreberiana*. 34: in arable field, NE of Chapman's Cross, SO939019, Lansdown RV *et al.*, det. Bosanquet.
- 61.2. *Microbryum davallianum*. H24: unshaded dried mud nr turlough edge, with patchy low herbs & grasses, 45 m alt., S of Lismacmanus (Fortwilliam Turlough SAC), N01416339, Holyoak DT 07-299.
- 61.3. *Microbryum rectum*. H9: soil on grave, 10 m alt., Ruan Church, R334868, Bosanquet SDS & Preston CD.
- 61.4. *Microbryum curvicolle*. 34: grassland on steep slope Rodborough Common, SO848037, Lansdown RV.
- 61.5. *Microbryum floerkeanum*. 33: on disturbed ground, grounds of Fire Service Training College, Moreton-in-Marsh, SP212330, Lansdown RV.
- 62.3. *Hennediella heimii*. 63: on inclined wet flush on colliery spoil, Brodsworth Community Woodland, SE525077, Wall C, det. Blockeel; H31: among low slaty rocks at head of beach beneath low cliffs, part-shaded by sedges, grasses & herbs, 2 m alt., Clogher Head, O17378448, Holyoak DT 07-176.
- 63.1.a. *Acaulon muticum*. 33: on bare soil of anthill in pasture, Doverow Hill, SO817052, Lansdown RV.
- 65.1. *Syntrichia ruralis*. H12: old straw thatch on W-facing roof of cottage by main road, 15 m alt., by E side of R742 in Blackwater, T12393401, Holyoak DT 07-458C; H31: dry sand of slope of dune at edge of golf course, part-shaded by *Ammophila arenaria*, 5 m alt., nr Baltray, O14817758, Holyoak DT 07-402.
- 65.4. *Syntrichia intermedia*. 111: Rock in boundary wall of cemetery, 5 m alt., Sanday, the Lady Kirk, HY677399, Hodgetts NG 7181; H6: on concrete wall-capping of bridge, 5 m alt., Stradbally Cove, X368971, Blockeel TL 36/539; H24: on ledges on E side of limestone wall around graveyard; part-shaded, 60 m alt., W of Elfeet, N01446009, Holyoak DT 07-291; H31: on unshaded top of mortared-stone wall nr coast, 20 m alt., Clogher Head, O17218453, Holyoak DT 07-169
- 65.6. *Syntrichia virescens*. 53: on limestone gravestone in churchyard, 70 m alt., Ingoldsby Church, TF 010300, Hodgetts NG 7288; 55: on mature elder in old orchard, 135 m alt., Loddington, nr Uppingham, SK791023, Denard A, det. Rieser.
- 65.8. *Syntrichia papillosa*. 21: on sallow, N side of Dollis Brook, N of Oakwood Road, Hampstead Garden suburb, London, TQ261889, Duckett JG; 33: on branch of fallen oak in hedge, Doverow Hill, SO819051, Lansdown RV; 34: on horizontal branch of elder with *Zygodon viridissimus*, Highnam Woods, SO779193, 2006, Lansdown RV; H7: on ash nr stream, 65 m alt., Quarryford Bridge, Newinn,

- S057340, Bosanquet SDS; H9: rare on ash in village main street, 60 m alt., Knock, R0953, Bosanquet SDS & Preston CD; H24: ca 2 m up on unshaded trunk of *Populus* tree in lawn nr lough shore, 38 m alt., nr Collum Point, N01615761, Holyoak DT 07-317A; H31: ca 1.5 m above ground on trunk of Beech tree beside road at woodland edge, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-215A.
- 65.9. *Syntrichia latifolia*. 72: on silt overlying tarmac at edge of driveway, 200 m alt., Samye Ling, Eskdale, NT245001, Kungu EM S463.
- 65.10. *Syntrichia amplexa*. 37: on soil on vertical bank of river, River Stour, Wilden Marsh nr Stowport, SO826737, Lawley M, conf. Blockeel & Bosanquet.
- 68.2. *Schistidium rivulare*. H9: frequent on rock shelves in river immediately downstream of bridge, 30 m alt., Annageeragh Bridge, R031708, Bosanquet SDS, Preston CD & Doogue D.
- 68.3. *Schistidium platyphyllum*. H9: occasional on rock shelves in river immediately downstream of bridge, 3 m alt., Annageeragh Bridge, R031708, Bosanquet SDS, Preston CD & Doogue D.
- 68.4. *Schistidium agassizii*. 92: on granite boulder in large river, 190 m alt., River Dee ca 2.5 km downstream of Ballater, NO390966, Rothero GP 17003.
- 68.5. *Schistidium apocarpum* s.s. 35: on flat gravestone below S side of church, Llanvapley, SO367140, 2001, Bosanquet SDS; H6: Boulders around small lake in NE-facing corrie, 520 m alt., Comeragh Mts, Lough Coumfea, S279099, Hodgetts NG 7220; H20: Mortar in stonework of bridge over reservoir, 220 m alt., Vartry Reservoir, north bridge, O209059, Hodgetts NG 7090; H31: on horizontal rock of fallen wall, part-shaded by deciduous trees, 85 m alt., just N of Ravensdale, J090132, Holyoak DT 07-229.
- 68.8. *Schistidium pruinosum*. 89: on S-facing crumbling volcanic crags, 176 m alt., head of Glen of Rait, SW of Kinnaird, NO20642776, Long *et al.* 36478.
- 68.9. *Schistidium strictum*. 65: on wet sloping rocks on side of gully in crag, 420 m alt., Combe Scar, Dentdale, SD677874, Blockeel TL 36/115.
- 68.13. *Schistidium flaccidum*. 103: 20+ cushions on igneous outcrop below main crag, 50 m alt., Fionn Aoineadh, Ardmeanach, Mull, NM407269, Bosanquet SDS (BBS visit). New to Scotland.
- 68.16. *Schistidium crassipilum*. 5: on old mortar of parapet of bridge over river, lightly shaded by deciduous woodland, Castle Bridge, just S of Brewers Castle, SS895294, Holyoak DT 07-22B; 83: on sandstone blocks of old mossy wall, 320 m alt., lower N slope of Hare Hill, Pentland Hills, NT17616244, Long DG *et al.* 36621; 110: Concrete on roadbridge on Pentland Road, 100 m alt., Allt Loch nan Geadh, NB329347, Hodgetts NG 7156; H20: Mortar in stonework of bridge over reservoir, 220 m alt., Vartry Reservoir, north bridge, O209059, Hodgetts NG 7089; H21: Concrete trig point on summit of hill, 648 m alt., Seahan Mountain, O081197, Hodgetts NG 7028; H22: on unshaded top of limestone wall by edge of track, 40 m alt., by River Boyne on E edge of Navan, N88176835, Holyoak DT 07-136; H23: on limestone block ca 1 m above water at edge of lough, slightly shaded by ash sapling, 82 m alt., E shore of Lough Ennell, N41484651, Holyoak DT 07-127; H24: limestone boulder by track, slightly shaded by edge of scrub, 38 m alt., W of Loughfarm, N01045982, Holyoak DT 07-268; H31: on sloping slaty rock in old quarry, part-shaded by tall *Urtica dioica*, 95 m alt., Almondstown, O13848325, Holyoak DT 07-177.
- 68.17. *Schistidium elegantulum*. 19: on vertical concrete of dam, 3 m alt., River Stour at Flatford, East Bergholt, TM078327, Stevenson CR, conf. Bosanquet; 34: on concrete topping of roadside limestone wall, 104 m alt., Tetbury, ST885933, Martin P, det. Bosanquet; 69: on Carboniferous limestone, 25 m alt., Latterbarrow, Witherslack, SD43938281, Callaghan DA & Nelson W, conf. Bosanquet; H9: several patches on limestone pavement, 10 m alt., Ballyogan Bridge, R335892, Bosanquet SDS & Preston CD.
- 68.17.a. *Schistidium elegantulum* subsp. *elegantulum*. H20: Stonework of old bridge, 190 m alt., Donard, Hell Kettle Bridge, S934985, Hodgetts NG 7186, conf. SDS Bosanquet.
- 68.17.b. *Schistidium elegantulum* subsp. *wilsonii*. 33: on church roof, 100 m alt., Ampney St. Mary church, E of Cirencester, SP076015, Martin P, conf. Bosanquet; H24: on wall by canal, by Royal Canal just S of Archies Bridge, N1357, Holyoak DT 07-297B, det. Bosanquet.
- 69.4. *Grimmia tergestina*. 7: on Cotswold stone tile on low roof of house, 80 m alt., Malmesbury, ST932874, Martin P; 23: on upper surface of chest tomb, 100 m alt., Burford church, SP253124, Martin P; 33: on Cotswold stone roof tile of bus shelter, 150 m alt., Painswick, SO866097, Martin P.

- 69.7. *Grimmia donniana*. 75: on exposed upper surface of rock in scree, 290 m alt., NW slopes of Glenmuck Craig, SE of Dalmellington, NS498034, Rothero GP 17162.
- 69.10. *Grimmia longirostris*. 103: exposed rocks above gully, 140 m alt., S side of Beinn Reudle, Mull, NM 358459, Bosanquet SDS (BBS visit).
- 69.16. *Grimmia orbicularis*. 33: on Cotswold stone roof tile of bus shelter, 150 m alt., Painswick, SO866097, Martin P; H21: On S-facing old wall and gate pillar on N side of road, 330 m alt., Kilmashogue Mountain, O15262346, Hodgetts NG 7050.
- 69.18. *Grimmia funalis*. H6: Boulder on N shore of corrie lake, 390 m alt., Comeragh Mts, Coumshingaun Lough, S32831101, Hodgetts NG 7255.
- 69.19. *Grimmia trichophylla*. 20: on small granite boulder at roadside, 70 m alt., Moor Lane, Sarratt, TQ031991, Tipper CTW, conf. Smith; 32: on top of wall, Earl's Barton churchyard, SP852638, Lawley M, det. Porley; H21: Rocks in disused quarry, 320 m alt., Slievenabawnoge, O0822, Hodgetts NG 7046.
- 69.19.c. *Grimmia muehlenbeckii*. 104: An Sguman, NG4318, 1968, Birks HJB, det. Maier; H6: Boulder on shore of corrie lake, 390 m alt., Comeragh Mts, Coumshingaun Lough, S33011091, Hodgetts NG 7250, conf. Porley; H40: Benbradagh nr Dungiven, C60, 1968, Birks HH *et al.*, det. Maier.
- 69.20a. *Grimmia lisae*. 2: on old tarmac path, Veryan churchyard, Roseland Peninsula, SW9139, 2005, Paton JA, det. Holyoak; H9: locally frequent on shale rocks on E side of gully, 10 m alt., Goleen Bay, Q826560, Bosanquet SDS & Preston CD; H22: on unshaded sloping slaty rock of low NW-facing crag on hillside, 60 m alt., SE of Duleek, O05326783, Holyoak DT 07-411; H31: crevice in low unshaded slaty rocks of cliff top, 20 m alt., Clogher Head, O17228456, Holyoak DT 07-170.
- 69.21. *Grimmia hartmanii*. H20: Boulders in river at base of deep wooded gorge, ca 10 m upstream from the sculpture 'Into the Darkness', 100 m alt., The Devil's Glen, T24249905, Hodgetts NG 7093.
- 69.23. *Grimmia decipiens*. 36: on sandstone boulder, 250 m alt., White Rocks, Garway Hill, SO439246, Sleath JD; 69: on Silurian slate on W-facing drystone wall, 85 m alt., Blawith Hill, Brown Robin Cumbria Wildlife Trust reserve, Grange-over-Sands, SD41307930, 2006, Nelson W; H6: On boulder on SE-facing slope above peat cuttings at mouth of corrie, 330 m alt., Monavullagh Mts, Farbreaga, S287048, Hodgetts NG 7271; H20: Stonework of bridge over reservoir, 220 m alt., Vartry Reservoir, north bridge, O209059, Hodgetts NG 7091, conf. Porley; delete H40, voucher 'on vertical basalt at base of crag, 450m alt., W side of Benbradagh, C722113, 1999, Holyoak, 99-658' is *G. muehlenbeckii* comm. Hodgetts.
- 70.2. *Racomitrium aciculare*. 32: on tombstone in graveyard, Bugbrooke churchyard, SP674573, Carter RH.
- 70.4. *Racomitrium fasciculare*. H32: on sloping sandstone rock of old quarry in moorland, unshaded & S-facing, 270 m alt., S slope of Eshmore, H5549 4167, Holyoak DT 07-166.
- 70.6. *Racomitrium sudeticum*. H13: on granite boulder, 650 m alt., Mount Leinster, NW side below summit, S8252, Blockeel TL 36/546; H21: Rock in heathland on summit of hill, 645 m alt., Seahan Mountain, O081197, Hodgetts NG 7041.
- 70.7. *Racomitrium affine*. 96: on inclined rock face, 230 m alt., Wester Clunes above W path, NH540409, Payne AG H6: On slabby rock on N-facing slope in corrie, 570 m alt., Comeragh Mts, Coum Iarthar Loughs, S31521210, Hodgetts NG 7244; H20: Rock crevices in N-facing cliff nr top of corrie, 900 m alt., Lugnaquilla Mountain, T02939192, Hodgetts NG 7133.
- 70.8. *Racomitrium heterostichum*. H12: Edge of rock in heathy grassland on SW-facing hillside, 450 m alt., Croghan Mountain, T13017232, Hodgetts NG 7283; H13: on granite boulder, 650 m alt., Mount Leinster, NW side below summit, S8252, Blockeel TL 36/544; H21: Rock in upland heath, 550 m alt., Seahan Mountain, O0820, Hodgetts NG 7038.
- 70.11. *Racomitrium ericoides*. H32: on unshaded surface of sandstone boulder at edge of ditch in moorland, 295 m alt., nr Lough Antrawer, H54794184, Holyoak DT 07-165.
- 70.13. *Racomitrium canescens*. 103: 15+ large patches on SW-facing ledges, 75 m alt., Fionn Aoinéadh, Ardmeanach, Mull, NM40672714, Bosanquet SDS (BBS visit); 106: on sand dunes, 3 m alt., Morrigh More, NH8083, Ballinger B.
- 71.1. *Ptychomitrium polyphyllum*. H21: Rock in disused quarry, 320 m alt., Slievenabawnoge, O0822, Hodgetts NG 7044.
- 72.1. *Glyphomitrium daviesii*. 75: on upper surface of exposed rock in scree, 290 m alt., NW slopes of Glenmuck Craig, SE of Dalmellington, NS498034, Rothero GP 17164.

- 73.1. *Campylostelium saxicola*. 69: on face of boulder nr beck, 160 m alt., between Wide Close and High Torver Park, Torver, SD27939447, Nelson W, conf. Hodgetts.
- 75.1. *Seligeria pusilla*. 94: on damp, shaded calcareous rock in ravine, 420 m alt., conglomerate pillar area, Water of Ailnack, W of Tomintoul, NJ145149, Rothero GP 17118.
- 75.2. *Seligeria acutifolia*. H24: on base of vertical limestone rock in old quarry, shaded by Hazels and ash saplings, 40 m alt., W of Cashel, N00926004, Holyoak DT 07-282.
- 79.1. *Entosthodon attenuatus*. H9: with *Fossombronia angulosa* on wet coastal rocks in gully, 15 m alt., Goleen Bay, Q826559, Bosanquet SDS & Preston CD; H20: On peaty detritus on dripping N-facing rock face, 420 m alt., Maulin, Raven's Glen, O1713, Hodgetts NG 7057.
- 80.1. *Physcomitrium pyriforme*. H12: part-bare, unshaded patch of clayey soil in weedy fallow field nr coast, 10 m alt., SW of Tacumshin Lake, T02670541, Holyoak DT 07-32.
- 81.1. *Aphanorhegma patens*. 37: on mud of dried-out pond, 28 m alt., Wilden Marsh Reserve, SO8289 7423, Lawley M, conf. Hodgetts.
- 83.1. *Ephemerum recurvifolium*. 45: on clay over limestone on steep bank, 35 m alt., target gully N of Pricaston, Castlemartin, SR91559680, Bosanquet SDS.
- 83.5.a. *Ephemerum serratum* var. *serratum*. 103: on soil in cattle-poached marsh, Cnoc Mor, nr Bunessan, Mull, NM4019, Fisk RJ; 110: on soil between stones on shore of small loch, N of Stornoway, Lewis, NB327364, Fisk RJ.
- 83.7. *Ephemerum hibernicum*. H25: partly bare patch of soil in sparse grassland on bank ca 1.5 m above river, almost unshaded, 35 m alt., Devenish Island, M98302870, Holyoak DT 07-334.
- 88.2. *Splachnum ampullaceum*. 46: on cattle (or horse?) dung in sedge-rich pasture, 5 m alt., Aberleri Fields NNR, Ynys-las, SN613918, Chater AO & Poland JP.
- 91.1. *Orthodontium lineare*. H9: frequent on dry peat bank separating two parts of bog, 15 m alt., Cloonybreen, S of Toor Hill, R086830, Bosanquet SDS, Preston CD & Doogue D; H32: on sloping bark 0.2–0.8 m above ground on base of fallen *Cupressus macrocarpa* tree in open grove of trees, 50 m alt., nr Hilton Lough, H492202, Holyoak DT 07-252.
- 93.3. *Pohlia cruda*. H6: rock crevices with some base-rich seepage in NE-facing cliffs in corrie, 600 m alt., Comeragh Mts, Coum Iarthar Loughs, S31071240, Hodgetts NG 7234.
- 93.5. *Pohlia obtusifolia*. 94: on mineral soil in area of very late snow lie, 1110 m alt., Feith Buidhe, Cairngorms, NH986010, Rothero GP 17091.
- 93.6. *Pohlia drummondii*. 110: on soil in rough ground at edge of road, 100 m alt., Pentland Road, NB 353340, Kungu EM S460; H12: Soil at edge of track in forestry plantation, 280 m alt., Croghan Mountain, T1471, Hodgetts NG 7285.
- 93.7. *Pohlia scotica*. 96: on silted rocks by burn below slabby waterfall, 410 m alt., waterfall on Allt Iarairidh, Dundreggan estate, NH32371766, Rothero GP 17066; 97: on silt in crevice of rock in burn, 120 m alt., Allt an t'Sluichdt above Garvan by Loch Eil, NM96417386, 2006, Rothero GP 16238.
- 93.11. *Pohlia annotina*. 32: on brick wall of disused railway tunnel, 140 m alt., N end of tunnel, Brampton Valley Way, Kelmash, SP750797, Carter RH.
- 93.12. *Pohlia proligera*. 96: on open mineral soil on unstable section of ravine side, 300 m alt., ravine on Allt Bhlaraidh below dam, Dundreggan estate, NH36091769, Rothero GP 17101.
- 93.13. *Pohlia campotrachela*. H4: on recently disturbed soil by forest road surfaced with limestone chips, Carrigagulla, Boggeragh Mountains, NE of Macroom, W37278370, 2005, Smith GF, det. Kelly conf. Holyoak; H6: On earth in gully in N-facing cliffs above corrie lake, 600 m alt., Comeragh Mts, Sgilloge Loughs, S2911, Hodgetts NG 7207.
- 93.16. *Pohlia lutescens*. H6: Disturbed soil heap by river, on right (SE) bank, 320 m alt., Comeragh Mts, Mahon Falls, R. Mahon, S31940805, Hodgetts NG 7258; H9: one small patch on vertical soil of road bank opposite graveyard, 120 m alt., Kilmurry McMahon opposite Graveyard, R124564, Bosanquet SDS & Preston CD.
- 93.18. *Pohlia melanodon*. H24: unshaded dried mud nr turlough edge, with patchy low herbs & grasses, 45 m alt., S of Lismacmanus (Fortwilliam Turlough SAC), N01396339, Holyoak DT 07-305.
- 93.19.a. *Pohlia wahlenbergii* var. *wahlenbergii*. H31: unshaded soil among rocks on N-facing hillslope with patchy grasses, 490 m alt., Clermont Cairn, J09951587, Holyoak DT 07-196.
- 94.1. *Epipterygium tozeri*. H6: loamy soil over rocks at base of N-facing bank above river, lightly shaded by deciduous trees, 15 m alt., S bank of R. Blackwater

- E of Lismore Bridge, X05039876, Holyoak DT 07-83.
- 96.1.a. *Anomobryum julaceum* var. *julaceum*. H20: By stream running through mine spoil in old lead and silver mine workings, 170 m alt., Glendalough, mine working above Upper Lake, T0896, Hodgetts NG 7098.
- 96.1.b. *Anomobryum julaceum* var. *concinatum*. 69: on outcrop of Urswick limestone in close cropped grassland, 30 m alt., Kirkhead, SD393752, Nelson W, conf. Holyoak; H6: Rock crevices with some base-rich seepage in NE-facing cliffs in corrie, 600 m alt., Comeragh Mts, Coum Iarthar Loughs, S31071240, Hodgetts NG 7235.
- 97.1. *Bryum marraii*. 103: at edge of eroded turf in salt marsh, 0 m alt., Miodar, NE Tíree, NM07725005, Chamberlain DF, E, det. Holyoak.
- 97.2. *Bryum warneum*. H21: in low bryophyte mat on W edge of track through dune slack, with sparse low *Equisetum variegatum* & *Festuca rubra*; unshaded, 2 m alt., North Bull Island, O2285036284, Holyoak DT 07-427.
- 97.7. *Bryum uliginosum*. H21: in low bryophyte mat on low bank by E edge of track through dune slack, on damp sand among sparse low *Festuca rubra*, *Equisetum*, *Carex*, etc, 2 m alt., North Bull Island, O2285536291, Holyoak DT 07-429.
- 97.13. *Bryum algovicum* var. *rutheanum*. 36: on gravel on waste ground, Bodenham Lake NR, SO528512, Lawley M, conf. Holyoak; 40: occasionally on sand-pit floor, Morvil Sandpit, nr Bridgenorth, SO6893, 2006, Bosanquet SDS; H18: on thin soil on unshaded top of wall N of ruin of castle, 45 m alt., W of Clonmacnoise, N007305, Holyoak DT 07-330B.
- 97.16. *Bryum archangelicum*. H31: unshaded soil among rocks on N-facing hillslope with patchy grasses, 490 m alt., Clermont Cairn, J09951587, Holyoak DT 07-197.
- 97.18. *Bryum intermedium*. H21: in low bryophyte mat nr track edge in dune slack, with sparse low grasses, sedges & herbs, 2 m alt., North Bull Island, O22753616, Holyoak DT 07-425A.
- 97.19. *Bryum donianum*. H21: Bare patch in S-facing vertical bank on N side of road, 330 m alt., Kilmashogue Mountain, O15252346, Hodgetts NG 7047; H23: on thin soil on ledge of low limestone rocks at base of grassy hillside, E-facing & shaded by grasses, 125 m alt., E of Carrick, N55407084, Holyoak DT 07-132.
- 97.27. *Bryum pallescens*. 111: Stonework of barn wall in drip zone below metal roof, 5 m alt., Sanday, Newbiggings, HY660416, Hodgetts NG 7179; H32: on thin soil over limestone gravel of edge of forestry track in moorland, part-shaded, 285 m alt., Barratitopy Upper, H56514235, Holyoak DT 07-149.
- 97.34. *Bryum gemmiferum*. 41: on soil bank on shore of pool, Kenfig Pool, SS799817, Lawley M; 110: on landslip at base of cliff, Camas Bostadh, Lewis, NB136402, Fisk RJ; H24: unshaded crevices of painted wood of lock gate above canal, 55 m alt., Royal Canal N of Ards Bridge, N10126681, Holyoak DT 07-319.
- 97.36a. *Bryum bicolor*. H24: unshaded clay bank by canal, with few patches of grasses but otherwise bare except for moss cover, 65 m alt., by Royal Canal at Pake Bridge, N12915955, Holyoak DT 07-309.
- 97.36c. *Bryum apiculatum*. 2: unshaded, part-bare patches of stony soil in short grassland of car-parking area beside track at edge of heathland, 135 m alt., W edge of Retire Common, SW99776313, Holyoak DT 07-09.
- 97.38. *Bryum radiculosum*. H21: unshaded top of mortared-stone wall, 25 m alt., SW coast of Howth peninsula, O27223701, Holyoak DT 07-435; H22: on mortar on small ledge of limestone wall by edge of track; lightly shaded, 40 m alt., by River Boyne on E edge of Navan, N88176835, Holyoak DT 07-135.
- 97.39. *Bryum ruderale*. H31: on thin dry soil on top of wall of old bridge (of mortared-stone) over stream in pasture; almost unshaded, 8 m alt., nr Drumcar Bridge, O06699113, Holyoak DT 07-193; H32: with other mosses on thin soil over edge of kerb beside road; unshaded, 70 m alt., Rossmore Forest Park, H653316, Holyoak DT 07-243.
- 97.42. *Bryum sauteri*. H9: occasional on vertical soil of road bank opposite graveyard, 5 m alt., Kilmurry McMahon opposite Graveyard, R124564, Bosanquet SDS & Preston CD.
- 97.45. *Bryum bornholmense*. H21: unshaded, thin, dry, recently burnt soil on ledges of Cambrian metamorphic rocks, with sparse low vegetation, 25 m alt., SW coast of Howth peninsula, O27233701, Holyoak DT 07-436.
- 97.46. *Bryum rubens*. H24: on partly bare stony soil at base of wall of ruin, by concrete path; part-shaded by walls, 60 m alt., W of Elfeet, N01456016, Holyoak DT 07-290.

- 99.5.a. *Mnium marginatum* var. *marginatum*. 33: on steep N-facing slope in mature beech woodland, Cooper's Hill, SO892147, 2006, Lansdown RV; 34: on low bank along track, Pen Wood nr Selsley Common, SO824025, Lansdown RV.
- 101.1. *Rhizomnium punctatum*. H31: growing over low rock on floor of mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-220.
- 102.2. *Plagiomnium affine*. 85: in short turf over base-rich conglomerate rock outcrop, 50 m alt., Washer's Willy, Newport-on-Tay, NO44192756, Kungu EM & Chamberlain DF S464.
- 102.4. *Plagiomnium elatum*. H23: in moss mat at base of sparse *Carex* in wet fen, 105 m alt., Scargh Bog (SE of Portnashangan), N42515900, Holyoak DT, Hodgetts NG, Lockhart N, Holyoak 07-390.
- 102.5. *Plagiomnium ellipticum*. 35: in runnels between *Carex paniculata* tussocks, 0 m alt., Virtuous Well, Trellech, SO503050, Bosanquet SDS; H24: by lough, 38 m alt., nr Collum Point, N0157, Holyoak DT 07-317B; H31: on near-vertical soil of bank ca 1.5 m above stream, shaded by Hawthorns, 7 m alt., nr Drumcar Bridge, O06689114, Holyoak DT 07-192.
- 103.1. *Pseudobryum cinclidioides*. 46: locally abundant in mire by lake, S end of Llyn Eiddwen, SN604667, Bosanquet SDS & Reed DK.
- 104.1. *Aulacomnium palustre*. H21: On *Sphagnum* hummock in upland heath, 490 m alt., Fairy Castle, O166223, Hodgetts NG 7051.
- 104.2. *Aulacomnium turgidum*. 103: in grassy *Racomitrium* heath nr summit, 727 m alt., Dun da Ghaoithe. Mull, NM67193647, 2005, Britton A.
- 104.3. *Aulacomnium androgynum*. H20: Dry rock crevices beneath overhang in granitic rock at base of N-facing cliff, 200 m alt., Powerscourt Waterfall, O19831201, Hodgetts NG 7085.
- 107.1. *Amblyodon dealbatus*. 94: on wet soil on large ledge under overhang on limestone crag, 420 m alt., tufa cave area, Water of Ailnack, W of Tomintoul, NJ142148, Rothero GP 17131.
- 110.2. *Bartramia pomiformis*. H13: on rock on wooded bank, 20 m alt., E bank of River Barrow, NE of Tinnahinch, S7244, Blockeel TL 36/557; H21: Rock crevice in cliff in disused quarry, 320 m alt., Slievenabawnoge, O0822, Hodgetts NG 7045.
- 110.3. *Bartramia ithyphylla*. H6: Shaded rock crevice in NE-facing cliff in corrie, 620 m alt., Comeragh Mts, Coum Iarthar Loughs, S31331209, Hodgetts NG 7243.
- 112.8. *Philonotis calcarea*. 46: 3 large patches at top of gravel slump above stream, 35 m alt., Nant Troed-y-rhiw, Cwmystwyth, SN82967593, 2006, Bosanquet SDS & Chater AO.
- 113.1. *Breutelia chrysocoma*. H32: in patchy vegetation of *Juncus* & herbs at edge of ditch beside track in edge of spruce plantation in moorland, 285 m alt., Barratitoppy Upper, H56514234, Holyoak DT 07-146.
- 115.1. *Amphidium lapponicum*. H1: a few tufts on vertical sandstone crag, 950 m alt., Carrauntoohil, Central Gully above Lough Cummeenoughter, V802845, Blockeel TL 36/510.
- 116.1.b. *Zygodon viridissimus* var. *stirtonii*. 33: on stone face of concrete-capped wall, wall leading from the Camp to Honeycombe farm, SO917093, Lansdown RV; H18: in crevices of N-facing wall of ruin of castle, ca 1.5 m above ground, 45 m alt., W of Clonmacnoise, N007305, Holyoak DT 07-329.
- 116.2. *Zygodon rupestris*. 19: on mortar on churchyard wall, 40 m alt., Springfield churchyard, TL 719079, Pyner T, conf. Porley; 25: on old apple tree in pasture, Martin's Meadow NR, Monewden, TM228572, Fisk RJ, conf. Porley; H7: Boulders just above small corrie lake, 500 m alt., Knockmealdown, NE corrie, S063086, Hodgetts NG 7197.
- 116.3.a. *Zygodon conoideus*. H11: on trunk of beech tree, 100 m alt., Woodstock Park, Inistioge, S6336, Blockeel TL 36/537; H21: ca 1.5 m above ground on branch of elder in edge of scrub, 25 m alt., SW coast of Howth peninsula, O27223701, Holyoak DT 07-434 (part); H23: part-shaded ca 0.5 m above ground on old *Betula* branch & on bark low on fallen *Salix cinerea*, in open *Betula* woodland, 65 m alt., E of Baronstown Demesne, N34016240, Holyoak DT 07-337; H31: 1.3 m up on trunk of large isolated Beech tree on road verge nr parking area, 90 m alt., nr Marble Bridge (Ravensdale Park), J08111575, Holyoak DT 07-213.
- 117.1. *Orthotrichum lyellii*. 61: on ash tree, in disused railway cutting NW of Beverley, TA003424, Wall C; H31: 1.3-1.6 m up on trunk of large isolated Beech tree on road verge nr parking area, 90 m alt., nr Marble Bridge (Ravensdale Park), J08111575, Holyoak DT 07-211.
- 117.2. *Orthotrichum striatum*. 20: on willow branch overhanging flooded former sandpit, 75 m alt.,

- Frogmore Pits, St Albans, TL149028, Tipper CTW; 22: on old *Salix* by stream and lakes in old gravel workings, Dinton pastures, SU778723, Rumsey FJ; 24: on *Salix* & *Sambucus* by roadside, Between Druid's Oak and Paddock, Burnham Beeches, SU94788457, Rumsey FJ; 32: on willow and *Prunus*, 25 m alt., Ring Haw woodland, TL054972, BBS meeting; 33: on mature hybrid black poplar, Darn Heath farm, Moreton-in-Marsh, SP211333, Lansdown RV, det. Porley RD; 40: a few tufts 4m up a *Salix* overhanging a woodland pool, 80 m alt., SW corner of Brown Moss, Whichchurch, SJ562393, Bosanquet SDS; 54: on willow, by footpath from Furzehill to Snipe Dales, Hagworthingham, TF346689, Rieser C & Lammi-man F; H7: on *Salix* in woodland, 80 m alt., Boher-boy Wood, Carrignaclea West, S335345, Bosanquet SDS.
- 117.4. *Orthotrichum affine*. H31: on sloping slaty rock in old quarry, part-shaded by tall *Urtica dioica*, 95 m alt., Almondstown, O13848325, Holyoak DT 07-179.
- 117.5. *Orthotrichum rupestre*. 85: on roadside wall, nr Black Loch, NO259152, Chamberlain DF & Kungu EM; H24: 2 m above ground on sloping trunk of ash tree in old limestone quarry, 40 m alt., W of Cashel, N00926004, Holyoak DT 07-284.
- 117.7. *Orthotrichum obtusifolium*. 29: on 70 year old Bramley apple tree, 2 m alt., row 3, tree 6, Elm, West Norman's Orchard, E of Dairy Crest Depot, Begdale Road, TF46130695, Stevenson CR.
- 117.9.a. *Orthotrichum cupulatum* var. *cupulatum*. 32: on side of concrete sluice, Stanwick Lakes, SP967711, Lawley M; 33: on wall alongside road over river, River Windrush N of pub, Little Barrington, SP205133, Lansdown RV; H11: on top of embankment wall by river, 10 m alt., bank of River Nore at Inistioige, S6337, Blockeel TL 36/527; H24: limestone boulder by track, slightly shaded by edge of scrub, 38 m alt., W of Loughfarm, N01045982, Holyoak DT 07-269.
- 117.9.b. *Orthotrichum cupulatum* var. *riparium*. 12: on concrete bridge, over ford close to source of River Test at Overton, SU52695042, Rumsey FJ.
- 117.11. *Orthotrichum sprucei*. 24: in small quantity on *Acer campestre*, 165 m alt., Captain's Wood, Chesham, SP949037, Tipper CTW, conf. Porley.
- 117.12. *Orthotrichum stramineum*. 16: on apple tree in old orchard, 100 m alt., Plough Hill nr Borough Green, TQ612556, Hendy J; 23: on *Salix caprea* in scrub adjacent to ancient woodland, 96 m alt., Slade Camp (N), Brasenose Wood & Shotover Hill SSSI, SP55880564, Wright JA, conf. Porley; 104: On elm bough in scrubby S-facing coastal woodland fragment, with *Uloa pyllantha* and *Zygodon conoideus*, 2 m alt., Camastianavaig, N side of Tianavaig Bay, NG512389, 2006, Hodgetts NG 6998, det. T.L. Blockeel; H31: on tree bark with *Metzgeria furcata* and *Frullania dilatata*, nr Marble Bridge (Ravensdale Park), J0815, Holyoak DT 07-215B.
- 117.13. *Orthotrichum tenellum*. 33: on trunk of young elm, grounds of Fire Service Training College, Moreton-in-Marsh, SP212331, Lansdown RV; 34: on horizontal branch of ornamental tree, Westonbirt Arboretum, ST853903, Lansdown RV; 40: on trunk of willow, Stapleton gravel pit, SJ473042, Lawley M, det. Bosanquet; 56: on *Salix* in woodland, 9 m alt., former gravel pit, Daneshill lakes, SK6687, Blockeel TL 36/107; H22: on almost unshaded bark ca 1 m up on leaning trunk of *Salix fragilis* tree nr river, 35 m alt., nr bank of River Boyne just E of Navan, N8851 6902, Holyoak DT 07-140; H24: on cut branches of elder in tall hedgerow on bank of canal, 55 m alt., Royal Canal N of Ards Bridge, N10116679, Holyoak DT 07-322.
- 117.14. *Orthotrichum pallens*. 20: on willow branch in wet willow/alder scrub by river, 60 m alt., by River Gade and Grand Union Canal, Cassiobury Park, Watford, TQ089974, Tipper CTW, det. Porley.
- 117.16. *Orthotrichum diaphanum*. H9: on shaded wall, 20 m alt., Labasheeda Quay, R156530, Bosanquet SDS & Preston CD; H31: on sloping slaty rock in old quarry, part-shaded by tall *Urtica dioica*, 95 m alt., Almondstown, O13848325, Holyoak DT 07-178.
- 117.17. *Orthotrichum pulchellum*. 92: on juniper in open woodland on flats by burn, 230 m alt., by Tullich Burn, Tullich by Ballater, NO38699778, Rothero GP 17017; H21: Epiphytic on willow in old quarry, 370 m alt., Kilmashogue Mountain, O125222, Hodgetts NG 7056.
- 117.18. *Orthotrichum consimile*. 57: on bark of elder bush by side of lane, 300 m alt., nr Ravensnest, ca 2 km W of Ashover, SK342611, Blockeel TL & Pearman MA 36/495.
- 118.2. *Uloa drummondii*. 43: on alder and willow, Ashfield nr Rhayader, SN987645, Lawley M.
- 118.3. *Uloa crispa*. 110: on branch of sallow by burn above waterfall, S of Port Geiraha, N of Stornoway, NB5350, Fisk RJ, conf. Porley.
- 118.4. *Uloa bruchii*. H23: ca 2 m above ground on horizontal branches of ash and hazel on stream bank at edge of pasture & nr lough edge, shaded by



- Hawthorns, 120 m alt., E of Carrick, N55467067, Holyoak DT 07-130.
- 118.5. *Uloa calvescens*. 45: one tuft on *Salix cinerea* branch overhanging stream S of palace wall, 170 m alt., Bishops' Palace, Lamphey, SN018008, Bosanquet SDS; H24: on bark of *Rhamnus cathartica* ca 1.3 m above rocks on shore of Lough Ree, shaded by scrub & ash saplings, 36 m alt., nr Collum Point, N016576, Holyoak DT 07-318; H32: bark 1.5 m up on *Salix cinerea* on bank of moorland stream; part-shaded, 285 m alt., Barratitoppy Upper, H56484231, Holyoak DT 07-155.
- 118.7. *Uloa phyllantha*. 33: on bole of old boundary beech in pasture, Catswood, SO881075, Lansdown RV; H31: unshaded horizontal slaty rock outcropping in grassland nr cliff top, 15 m alt., Clogher Head, O17328457, Holyoak DT 07-174.
- 119.1.a. *Hedwigia ciliata* var. *ciliata*. 61: on stone capping of brick wall, E churchyard wall, North Cave, W of Hull, SE89783274, Wall C.
- 120.1.d. *Fontinalis antipyretica* var. *cymbifolia*. H18: fresh plants found unattached on strand-line at unshaded edge of River Shannon, 35 m alt., W of Clonmacnois, N00643061, Holyoak DT 07-327; H23: on vertical masonry of canal edge at 10-30 cm depth beneath water surface, lightly shaded by bridge, 90 m alt., in edge of Royal Canal at Ballina Bridge, N388510, Holyoak DT 07-256; H24: ca 25 cm below surface of water at edge of lough, on unshaded limestone boulder, 35 m alt., E edge of Lough Ree at Cow Island (W of Loughfarm), N00945984, Holyoak GA & Holyoak DT 07-276.
- 122.1. *Cryphaea heteromalla*. 89: on old elder by road, 185 m alt., head of Glen of Rait, SW of Kinnaird, NO20472774, Long *et al.* 36467.
- 124.1. *Antitrichia curtipendula*. 21: abundant on tree trunks, Enfield Chase, Southgate, TQ29, 1725, Dillenius JJ, conf. Lindberg; 103: on rock on edge of lochan, 270 m alt., Lochan Airde Beinn, NM471537, Pool M; 110: on open, S-facing rock outcrop, 110 m alt., Airigh an Aip, W of Stornoway, Lewis, NB35413407, Pool M; H7: Boulders on shore of small corrie lake, 480 m alt., Knockmealdown, NE corrie, S06400864, Hodgetts NG 7198.
- 125.1. *Pterogonium gracile*. 21: on beeches, Enfield Chase, TQ29, 1725, Dillenius JJ, conf. Lindberg.
- 127.1. *Leptodon smithii*. 69: on limestone on N side of dry-stone wall, 79 m alt., Applebury Hill, Allithwaite, SD37567656, Nelson W.
- 128.3. *Neckera pumila*. H31: 1.0 m up on trunk of large isolated Beech tree on road verge nr parking area, 90 m alt., nr Marble Bridge (Ravensdale Park), J08111575, Holyoak DT 07-212.
- 128.4. *Neckera complanata*. H31: on stone at base of mortared roadside wall, shaded by conifers & *Prunus laurocerasus*, 85 m alt., just N of Ravensdale, J091132, Holyoak DT 07-228.
- 129.1. *Homalia trichomanoides*. H32: ca 1.4 m above ground on steep bark of sycamore trunk in edge of open grove of deciduous trees, 50 m alt., nr Hilton Lough, H492202, Holyoak DT 07-251.
- 132.1. *Calyptrochaeta apiculata*. H5: in wet woodland nr estuary, 5 m alt., Fota Island South nr Fota Island Arboretum, W79427094, O'Neill FH.
- 133.1. *Hookeria lucens*. H31: among stones 10–20 cm above water of stream, between boulders, part-shaded by mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081158, Holyoak DT 07-227A.
- 138.1. *Leskea polycarpa*. H20: On trunk of riverside sycamore, 190 m alt., Woodenbridge, Avoca River, T1977, Hodgetts NG 7188.
- 144.1.a. *Heterocladium heteropterum* var. *heteropterum*. H13: at base of rock outcrop on wooded bank, 20 m alt., E bank of River Barrow, NE of Tinnahinch, S7244, Blockeel TL 36/556; H31: on steep face of boulder (of metamorphic rock) nr roadside in shade of beech tree, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-214.
- 144.1.b. *Heterocladium heteropterum* var. *flaccidum*. H31: growing over low rock on floor of mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-219; H32: covering low rock on floor of mixed deciduous & coniferous plantation, 50 m alt., nr Hilton Lough, H491205, Holyoak DT 07-246.
- 144.2. *Heterocladium wulfsbergii*. 4: on rock in dry stream bed, 110 m alt., W coast of Lundy Island, SS132455, 2006, Martin P; 50: on wet rocks by river, 60 m alt., R bank of Afon Conwy, Fairy Glen Betws-y-coed, SH8053, 1981, Benoit PM; H20: Shaded rocks by river, 350 m alt., Luggala, Cloghoge River, O152089, Hodgetts NG 7069.
- 145.1.a. *Thuidium abietinum* subsp. *abietinum*. 33: abundant in abandoned quarry, Dodwell Quarries, Whittington, SP005217, Lansdown RV.
- 145.3. *Thuidium delicatulum*. H32: on S-facing slope, S slope of Eshmore, H5541, Holyoak DT 07-160B.

- 145.4. *Thuidium philibertii*. 40: in turf over limestone, Shadwell Quarry nr Much Wenlock, SJ625007, 2006, Lawley M, conf. Porley; H18: in short unshaded grassland on slope above moat of old castle ruin, 40 m alt., W of Clonmacnoise, N00733054, Holyoak DT 07-328; H24: in unshaded short patchy grassland on thin soil over limestone rock nr old quarry, 40 m alt., W of Cashel, N00876002, Holyoak DT 07-279A.
- 147.1.a. *Palustriella commutata* var. *commutata*. 19: on small ledge by stream and encrusted with calcareous deposits, 85 m alt., disused railway track, Fritch Way, Great Dunmow, TL620216, Pyner T, det. Blockeel; H21: slightly shaded edge of tarmac at wet edge of ditch below mortared-stone wall, 25 m alt., E of Howth village, O29283905, Holyoak DT 07-441.
- 147.1.b. *Palustriella commutata* var. *falcata*. H20: Flushed rock face in NE-facing birch woodland, 350 m alt., Luggala, O154085, Hodgetts NG 7076.
- 150.1.a. *Campylium stellatum* var. *stellatum*. H21: dune slack, North Bull Island (S end), O2235, Holyoak DT 07-422B.
- 150.1.b. *Campylium stellatum* var. *protensum*. 33: in dense mass on ant hill, abandoned quarry E of Scottsquar Quarry, SO847091, Lansdown RV, conf. Blockeel.
- 151.1. *Campyliadelphus chrysophyllus*. H7: occasional on lime-rich road verge just N of junction, 80 m alt., Quarryford Bridge, Newinn, S057340, Bosanquet SDS.
- 153.1.a. *Amblystegium serpens* var. *serpens*. H31: thin soil over slaty rock in old quarry, almost unshaded, 95 m alt., Almondstown, O13848325, Holyoak DT 07-180.
- 153.2. *Amblystegium fluviatile*. 86: on rocks in river, N side of River Carron, Carron Glen SWT reserve, NS790832, Chamberlain DF *et al.* E
- 153.3. *Amblystegium tenax*. 73: on rocks in cascade in river, 165 m alt., the Black Water just E of bridge over B7000, NX617883, Rothero GP 17173; H32: 0–10 cm above water-level of stream on almost unshaded masonry of wall by bridge, 70 m alt., Rossmore Forest Park, H65403158, Holyoak DT 07-244.
- 153.4. *Amblystegium varium*. H24: at edge of turlough, 45 m alt., S of Lismacmanus (Fortwilliam Turlough SAC), N0163, Holyoak DT 07-298B.
- 153.5. *Amblystegium humile*. 57: on muddy stone exposed at edge of river, 53 m alt., River Derwent at Duffield, SK350427, Blockeel TL & Pearman MA 36/110.
- 154.1. *Leptodictyum riparium*. H31: steep side of block of masonry just above water-level in flooded quarry, shaded by tall grasses, 95 m alt., Almondstown, O13848324, Holyoak DT 07-181.
- 157.1. *Drepanocladus polygamus*. H12: almost unshaded on damp sand at base of low *Holcus lanatus* & herbs in dune slack, 4 m alt., nr The Raven Point, T11802301, Holyoak DT 07-464; H21: among sparse *Agrostis stolonifera* & *Equisetum variegatum* on unshaded edge of dune slack, 2 m alt., North Bull Island (S part), O22603609, Holyoak DT 07-417.
- 157.2. *Drepanocladus aduncus*. H21: among sparse *Agrostis stolonifera* & *Carex panicea* in unshaded dune slack, 2 m alt., North Bull Island (S part), O22603610, Holyoak DT 07-416; H23: emergent from water ca 10 cm deep in shallow margin of pool in pasture, part-shaded by *Glyceria fluitans*, 65 m alt., E of Baronstown Demesne, N33266239, Holyoak DT 07-342.
- 157.4. *Drepanocladus lycopodioides*. H24: unshaded dried mud nr turlough edge, with patchy low herbs & grasses, 45 m alt., S of Lismacmanus (Fortwilliam Turlough SAC), N01416339, Holyoak DT 07-302.
- 157.5. *Drepanocladus revolvens*. 65: at edge of gravelly runnel in mineral-rich mire, 270 m alt., below Combe Scar, Dentdale, SD6787, Blockeel TL 36/116.
- 157.6. *Drepanocladus cossonii*. 75: in flush with *Palustriella commutata*, 300 m alt., NW slopes of Glenmuck Craig, SE of Dalmellington, NS498034, Rothero GP 17165; 79: edge of channel by river gravel, 240 m alt., S side of Yarrow, W of Craig Douglas, NT283243, 2006, Corner RWM, conf. Hill; 86: in basic flush by burn, 280 m alt., by Banton Burn W of minor road, Kilsyth Hills, NS725806, Rothero GP *et al.* 17185.
- 158.1. *Hamatocaulis vernicosus*. 86: in base-rich flush by burn, 280 m alt., upper Banton Burn, SE of Tomtain, Kilsyth Hills, NS725806, Chamberlain DF *et al.* E
- 161.3.a. *Hygrohypnum luridum* var. *luridum*. 61: on horizontal gravestone beneath N wall of church, Walton Church S of Driffield, TA0249, Wall C.
- 161.5. *Hygrohypnum eugyrium*. 86: on rocks in river, 90 m alt., Carron Valley SWT reserve, Denny, NS785834, Rothero GP *et al.* 17182; H20: Boulders in river at base of deep wooded gorge, 100 m alt., The Devil's Glen, T2499, Hodgetts NG 7094.
- 164.3. *Calliergon cordifolium*. 103: in fen by lochan, 30 m alt., Cnoc Mor, Mull, NM41131974, Bosanquet SDS (BBS visit); H9: in fen by lough, 20 m alt., Bohyodaun, N of, R156566, Bosanquet SDS & Preston CD.

- 166.1.b. *Isothecium myosuroides* var. *brachythecioides*. H6: Crevice in rock outcrop just S (Waterford side) of summit ridge, 650 m alt., Knockmealdown, summit ridge, S062084, Hodgetts NG 7201; H20: Crevices in rock outcrop in N-facing corrie, 720 m alt., Lugnaquilla Mountain, T03959245, Hodgetts NG 7146.
- 166.2. *Isothecium alopecuroides*. H31: growing over low rock on floor of mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-218.
- 167.1. *Scorpiurium circinatum*. H11: on side of old wall, 40 m alt., by road between Coolshanvogh and Inistioge, S6337, Blockeel TL 36/538.
- 168.1. *Homalothecium sericeum*. H31: on almost unshaded, steep, E-facing slaty rock nr coast, 20 m alt., Clogher Head, O17218453, Holyoak DT 07-168.
- 168.2. *Homalothecium lutescens*. H21: unshaded, among short grassland at edge of path through hollow in sand dunes, 3 m alt., North Bull Island (S part), O22613607, Holyoak DT 07-420; H31: unshaded short grassland on base of slope of dune at golf course edge, 5 m alt., nr Baltray, O14817758, Holyoak DT 07-405.
- 169.1. *Brachythecium albicans*. H31: among low grasses on thin soil over edge of low slaty rocks on cliff top, 15 m alt., Clogher Head, O17328457, Holyoak DT 07-175A.
- 169.3. *Brachythecium glareosum*. 45: in calcareous turf by low limestone outcrops, 5 m alt., Radford Pill Head, SN040033, Bosanquet SDS; 103: small patch in calcareous turf in S-facing gully, 110 m alt., S side of Beinn Reudle, Mull, NM358458, Bosanquet SDS (BBS visit); 110: Base-rich turf on shell sand on NE-facing slope, 10 m alt., Camas Bostadh, Lewis, NB1340, Hodgetts NG 7170.
- 169.7. *Brachythecium rivulare*. H31: damp soil at edge of pasture, part-shaded by woodland edge, 7 m alt., nr Drumcar Bridge, O06609112, Holyoak DT 07-186.
- 169.10. *Brachythecium reflexum*. 92: on fern litter in block scree, 1000 m alt., by Lochan Uaine, SE of Ben Macdui, NN99989801, Flagmeier M, conf. Rothero.
- 169.11. *Brachythecium velutinum*. 92: on shaded granite blocks in scree in ravine, 230 m alt., Vat Burn, Dinnet, NO420997, Rothero GP 17014; H18: almost unshaded vertical limestone of block on bank of River Shannon ca 2 m above water-level, in edge of grassland on slope, 35 m alt., W of Clonmacnoise, N00753067, Holyoak DT 07-323.
- 169.15. *Brachythecium plumosum*. 32: sloping brickwork at entrance to disused railway tunnel, 140 m alt., Brampton Valley Way, Kelmarsh, SP749696, Pool M; H31: on boulders ca 1 m above water at edge of stream, part-shaded by mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081158, Holyoak DT 07-224 (part).
- 171.1. *Cirriphyllum piliferum*. H32: with other mosses on soil of bank ca 0.8 m above water of stream, lightly shaded in deciduous woodland, 70 m alt., Rossmore Forest Park, H653317, Holyoak DT 07-235.
- 172.3. *Rhynchostegium murale*. H18: almost unshaded on concrete of side of jetty on bank of River Shannon ca 2 m above water-level, 35 m alt., W of Clonmacnoise, N00753067, Holyoak DT 07-325.
- 172.5. *Rhynchostegium megapolitanum*. H5: Dry earthy crevice in old vegetated stone wall at top of cliff, 15 m alt., Ballycotton, Ballytrasna, W97976305, Hodgetts NG 7009.
- 173.1. *Eurhynchium striatum*. H31: growing over low rock on floor of mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-222.
- 173.3. *Eurhynchium striatulum*. 33: on stones nr base of N-facing slope of deeply sunken lane, Redding Wood, SO879077, Lansdown RV.
- 173.5. *Eurhynchium pumilum*. 110: on deeply shaded soil in gully of burn, 25 m alt., Lews Castle grounds, Stornoway, Lewis, NB421332, Pool M; 111: Shaded concrete culvert below track, at top of low sea cliff, 5 m alt., Sanday, Gump of Spurness, HY606350, Hodgetts NG 7173; 112: in herb-rich grassland over limestone, Out Skerries, HU681720, 2006, Payne AG, conf. Blockeel; H31: on near-vertical soil of bank ca 1.5 m above stream, shaded by Hawthorns, 7 m alt., nr Drumcar Bridge, O06689114, Holyoak DT 07-190.
- 173.9. *Eurhynchium speciosum*. 21: on willows with *Brachythecium ruabulum* by canal, Springwell Lock nr Rickmansworth, TQ043930, Duckett JG; 111: Shaded concrete culvert below track, at top of low sea cliff, 5 m alt., Sanday, Gump of Spurness, HY606350, Hodgetts NG 7175.
- 174.1. *Rhynchostegiella tenella*. H9: on mortar of N-facing church wall, Kilmihil Old Church, R109640, Bosanquet SDS & Preston CD; H24: on limestone rock in wall, well shaded by edge of scrub & ash saplings nr lough shore, 37 m alt., W of Loughfarm, N01035980, Holyoak DT 07-273.

- 174.4. *Rhynchostegiella teneriffae*. 32: on edge of canal, Grand Union Canal, Dodford, SP626613, BBS meeting.
- 175.1. *Entodon concinnus*. H23: on base of low limestone rocks facing SE. on grassy hillside, lightly shaded by Hawthorn bushes, 125 m alt., E of Carrick, N55407084, Holyoak DT 07-133; H24: unshaded thin soil over limestone rock on floor of old quarry, with sparse low grasses & herbs, 40 m alt., W of Cashel, N00916005, Holyoak DT 07-285; H31: unshaded short grassland on base of slope of dune at golf course edge, 5 m alt., nr Baltray, O14817758, Holyoak DT 07-404.
- 180.1. *Plagiothecium latebricola*. 32: on base of oak, High Wood nr Preston Capes, SP5854, Hill MO.
- 180.5. *Plagiothecium curvifolium*. 103: on acid bank under conifers, 175 m alt., S of Cnoc Reamhar, Ross of Mull, NM462197, Pool M.
- 180.8. *Plagiothecium platyphyllum*. H6: Flushed rock on N-facing cliff in corrie, 500 m alt., Comeragh Mts, Coumshingaun Lough, S32401066, Hodgetts NG 7257; H7: Crevice among boulders on shore of small corrie lake, 480 m alt., Knockmealdown, NE corrie, S064086, Hodgetts NG 7195.
- 180.10. *Plagiothecium succulentum*. 33: on oak stump by ditch, by track E of Fire service college boundary, Moreton-in-Marsh, SP227328, Lansdown RV & Rumsey FJ, conf. Holyoak.
- 180.11. *Plagiothecium nemorale*. H13: on thin soil on shaded rock outcrop on wooded bank, 20 m alt., E bank of River Barrow, NE of Tinnahinch, S7244, Blockeel TL 36/555; H31: growing over low rock on floor of mixed deciduous & coniferous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-221 (part).
- 180.12. *Plagiothecium undulatum*. H31: on damp peat at base of bank on N-facing hillslope, with *Sphagnum subnitens*, 490 m alt., Clermont Cairn, J09831586, Holyoak DT 07-204.
- 182.1. *Pseudotaxiphyllum elegans*. H31: on humic soil at base of conifer trunk in open mixed coniferous & deciduous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-217.
- 187.1. *Pyloisia polyantha*. 33: 2m up on inclined ash in secondary woodland, N edge of Fire service college site, Moreton-in-Marsh, SP213321, Rumsey FJ *et al.*; 35: 3 patches on *Crataegus* in hedge on N side of road, 80 m alt., Llwyncelyn, Llanhenock, ST352949, Bosanquet SDS.
- 190.3b. *Hypnum cupressiforme* var. *heseleri*. 29: one large tuft in crotch of Bramley apple tree, orchard at Elm nr Wisbech, TF459067, Hill MO & Stevenson CR.
- 190.6. *Hypnum andoi*. H31: growing over tree stump on roadside at edge of mixed coniferous & deciduous woodland, 90 m alt., nr Marble Bridge (Ravensdale Park), J081157, Holyoak DT 07-223.
- 191.1. *Ptilium crista-castrensis*. 83: on log amongst tall herbs on overgrown river bank, 150 m alt., Addiewell Bing SWT reserve, West Calder, NT00246317, Long DG *et al.* 36950.
- 192.1.c. *Ctenidium molluscum* var. *condensatum*. H6: soil of steep E-facing slope in deciduous woodland above river, 5 m alt., just N of W side of Glendine Bridge, X071826, Holyoak DT 07-72.
- 193.1. *Hyocomium armoricum*. H31: on rock & stony soil ca 0.5 m above water at edge of stream in mixed deciduous & coniferous woodland; shaded, 90 m alt., nr Marble Bridge (Ravensdale Park), J081158, Holyoak DT 07-225; H32: on part-shaded sandstone boulders 10-30 cm above water-level in moorland stream, 285 m alt., Barratitoppy Upper, H56484231, Holyoak DT 07-157.
- 194.3. *Rhytidiadelphus subpinnatus*. 86: on woodland floor in open ravine section of river, 100 m alt., Carron Valley SWT reserve, Denny, NS784836, Kungu E, Chamberlain DF & Rothero GP 17181. New to Scotland.
- 194.4. *Rhytidiadelphus loreus*. H31: at base of *Empetrum*, *Calluna*, etc. on peaty soil of N-facing hillslope, 490 m alt., Clermont Cairn, J09841587, Holyoak DT 07-203.

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