

The moss year – 2010

Two mosses were reported new to Britain in 2010. *Ephemerella readeri* resembles *Aphanorrhegma patens*, but has a longer seta and therefore exerted capsules, and the nerve extends only halfway up the leaf. It was collected at Lindley Wood Reservoir in Yorkshire in 2006 by E.J. Hooper, and is new not only to Britain but also to Europe (Hooper *et al.*, 2009). In Scotland, Nick Hodgetts solved the identity of a distinctive *Schistidium* from the Shetland Isles that has proved to be *S. maritimum* subsp. *piliferum* (Hodgetts, 2010). It turns out to be the same as the Shetland plants previously reported as *S. frigidum*. With further study this subspecies may well prove to be an independent species. Its occurrence in Shetland is consistent with its European distribution; it is a northern species, widespread in Scandinavia.

2010 was another good year for epiphytes. Outstanding is Sam Bosanquet's discovery of *Daltonia splachnoides* in eastern Ireland and Wales. Like *Colura*, *Daltonia* has benefited from the humidity and shelter provided by conifer plantations, and it has been found increasingly in this habitat in Ireland. It has always been very rare and elusive on the British side of the Irish sea, known only from a few places in western Scotland. The Welsh locality is a big extension of its range, and doubtless it originated from spores blown across the sea from Ireland. Bryologists should look for it in conifer forests in other parts of western Britain, but with its need for greater humidity it is perhaps unlikely to spread as widely as *Colura*.

In contrast to this western species, other epiphytes probably arrive in Britain from spores

blown across the North Sea. Chris Tipper has made several exciting finds to the north of London, notably *Ulota coarctata*, *Orthotrichum pumilum* s.l., and *O. consimile*, the latter at its third modern British locality. The specimen of *O. pumilum* matches the form known as *O. schimperi*, which is often regarded as a distinct species. *O. pumilum* agg. is a common species in continental Europe, *O. schimperi* being particularly characteristic of Mediterranean regions. The Atlantic climate in Britain does not suit it so well, but it may become more common now that pollution is less of a barrier to it in southern and eastern areas. Another new record of *Ulota coarctata* was made on Skye by Nick Hodgetts; this record is more in keeping with the historic distribution of this species in Britain.

The spread of epiphytes in formerly polluted areas is well illustrated by Colin Wall's record of *Antitrichia curtispindula* from Brockadale in South-west Yorkshire. This locality at one time experienced severe pollution from the Yorkshire coalfield. Almost as surprising is Sam Bosanquet's record of the same species on an exotic tree (*Paulownia*) within the grounds of Bristol Zoo. *Antitrichia* was once thought to have suffered from pollution even in remote regions such as Dartmoor, so the recent records from populated areas of the country could not easily have been anticipated.

A few years ago, Richard Fisk (2005) found *Pterigynandrum filiforme* growing as an epiphyte in East Anglia, far removed from its previously known British sites. Robin Stevenson has now found it on an apple tree near Wisbech, Cambridgeshire. Although *P. filiforme* is primarily a boreal-montane moss in Europe, it also

occurs in the Netherlands, and this is likely to be another example of a species colonizing eastern England from propagules originating in continental Europe.

It is not only epiphytes that have turned up in unexpected places. There have been two new English records of *Ptilium crista-castrensis* in the year, following the 2009 record in Lincolnshire. Richard Lansdown found it in the Forest of Dean in Gloucestershire, and Joan Egan, Rita Holmes and Harry Lake found it by Ladybower Reservoir in the Peak District. *Ptilium* is very much a plant of the north and the mountains in Britain and Ireland. The two new records are associated with conifer plantations, and it is tempting to suppose that it was introduced at these sites through forestry operations. However, it is equally possible that these populations have arrived naturally, perhaps via wind-borne spores. The lowland site in Lincolnshire is in wet *Salix* woodland and is surely natural.

The year produced two species new to Ireland. Jeff Duckett found that *Syntrichia virescens* was widespread on pavements in parts of Dublin, very much in line with its occurrences in

similar habitats in Britain. In such habitats it is often very small in stature and easily overlooked. *Ephemerum recurvifolium* is also easily overlooked. Sam Bosanquet detected it by a lane in Co. Wicklow in a habitat similar to those in England and Wales. The presence of these species is no great surprise in Ireland, but demonstrates that scrutiny of ordinary habitats can be very rewarding.

Sphagnum skyense, an impressive species, morphologically intermediate between *S. quinquetarium* and *S. subnitens*, was known for a long time only from its originally locality on Skye. It was found to be widespread on Rum in 2004, but was not collected in Ireland until 2007. Nick Hodgetts has now found it at a second Irish site in Co. Mayo. Though not surprising geographically, this record is a reminder that *S. skyense* remains little known in the oceanic regions where it might be expected to occur. Two other good records of Irish sphagna are Jo Denyer's new localities for *S. pulchrum* in Co.s Mayo and Sligo.

In Scotland, *Tayloria lingulata* was found by Sam Bosanquet in the celebrated Ailnack Gorge near Tomintoul. Although this was within the

existing range of this nationally rare species, the habitat in rock crevices by the river was unusual. *T. lingulata* is normally found in montane flushes. Any new site for *Habrodon perpusillus* is welcome, given its disappearance from so many of its historic sites, but Chris



◁ *Ptilium crista-castrensis*
at Ladybower
Reservoir, Derbyshire.
T. Blockeel

Preston's record from Marnoch in north-east Scotland is more than just a new site; it is a substantial northwards extension of the range of this species in Britain.

The range of *Grimmia muehlenbeckii* continues to expand. Ron Porley has detected it new to Wales from a specimen collected by C.H. Binstead in 1924 at Cwm Idwal and originally named *G. robusta*, and Sam Bosanquet has collected it from a fourth Irish vice-county in Cork.

Ditrichum plumbicola has always been rare in England, known from the Mendips and isolated sites in Cornwall and Northumberland. It was surprising that it had never been recorded on the old lead mines in other parts of northern England. That has now been remedied by Jeff Duckett and Silvia Pressel, who found it in Swaledale in Yorkshire and below Helvellyn in the Lake District. It might be expected from other sites in the Yorkshire Dales, but is unlikely to be plentiful. It was very sparse at its Swaledale site.

It was feared that *Dialytrichia saxicola*, only recently reported from Britain, was restricted to just a single extant locality in Berkshire. The fears have proved to be unfounded. Pete Martin has collected it at Cirencester, and Richard

Lansdown found it to be plentiful on both sides of the River Thames at Laleham. New localities can be expected, especially along the Thames. Another interesting English record, albeit of an introduced species, is David Holyoak's discovery of *Tortula amplexa* in Nottinghamshire. Though known in Britain for nearly 40 years now, it has been slow to expand its range. It seems unlikely to become a troublesome invader!

References

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New records – mosses

- 1.1. *Sphagnum austinii*. **H19**: raised bog, North Lodge Bog, Lullymore, N71492602, 2010, JL Denyer, conf. MO Hill; **H19**: edge of pool, Lodge Bog, Co. Kildare, N7153925972, 2009, M Newman.
- 1.5. *Sphagnum magellanicum*. **94**: bog, 320 m alt., Glack of Bregach, NJ250320, 2010, EM Kungu.
- 1.6. *Sphagnum squarrosum*. **H31**: edge of *Molinia*-dominated valley mire, west of Dromiskin, O043980, 2009, JL Denyer & M Eakin, conf. MO Hill; **H31**: close to mature willow in west of a series of three small wetlands, 25 m alt., Ardully Beg, J194064, 2010, M Eakin.

- 1.7. *Sphagnum teres*. **4**: locally plentiful in base-rich flush, Prewley Moor, near Sourton, SX5413491146, 2010, S Pilkington & M Pool.
- 1.8. *Sphagnum fimbriatum*. **H19**: degraded/recently cleared bog edge, ca 80 m alt., South Lodge Bog, Lullymore, N709251, 2010, J Denyer & R Duggan, conf. MO Hill; **H31**: edge of *Molinia*-dominated valley mire, west of Dromiskin, O043980, 2009, JL Denyer & M Eakin, conf. MO Hill.
- 1.11. *Sphagnum quinquefarium*. **86**: boggy hill slopes, crags above Boquhan Burn, Gargunnock Hills, NS6590, 2010, EM Kungu, DF Chamberlain & D Franklin.
- 1.13.a. *Sphagnum capillifolium* subsp. *capillifolium*. **62**: forming hummock on moorland bank, ca 240 m

- alt., near Saltergate, 4 km north of Lockton, SE848941, 2010, TL Blockeel 39/436; **87:** birch woodland, on the margins of small pond, among *Juncus*, ca 40 m alt., Aberfoyle, woodland above Forestry Commission offices, NN531005, 2010, EM Kungu, conf. MO Hill; **92:** slopes of valley, 300–400 m alt., Coinlach Burn, west of track, eastern edge of Cairngorms National Park, NJ4003, 2010, EM Kungu, conf. MO Hill; **96:** conifer plantation, mature pine trees, very open tree cover, ca 5 m alt., Carse Wood, west of Nairn, NH823560, 2010, EM Kungu, conf. MO Hill; **H21:** blanket bog, 480 m alt., Glassamucky Mt/Military Road, O124207, 2010, M Lyons, conf. MO Hill.
- 1.15.b. *Sphagnum subnitens* var. *ferrugineum*. 86:** 550–600 m alt., north slope of Ben Lomond, NN30, 2001, S Lægaard SL21448, det. K Thingssgaard, conf. KI Flatberg, new to Scotland (see Thingssgaard, 2003).
- 1.16. *Sphagnum skyense*. H27:** on steep heathy slopes in north-east-facing corrie, ca 400 m alt., Mweelrea, L81826774, 2010, NG Hodgetts, N Lockhart & R Thompson 7792, conf. MO Hill.
- 1.19. *Sphagnum compactum*. H31:** at edge of vegetation on bare rock, in plateau area, ca 270 m alt., ‘The Foxes Rock’, Corrakit, Cooleys, J133137, 2010, M Eakin.
- 1.20. *Sphagnum subsecundum*. 4:** plentiful in base-rich flush, Prewley Moor, near Sourton, SX5413491146, 2010, S Pilkington & M Pool.
- 1.21. *Sphagnum inundatum*. H11:** pool in acidic quarry, 175 m alt., Cloghscregg, S632445, 2010, SDS Bosanquet & CD Preston.
- 1.24. *Sphagnum platyphyllum*. 101:** margin of loch, 79 m alt., Loch Nan Gad south shore, NR78435 57086, 2009, A McManus & T Coy, conf. MO Hill.
- 1.26. *Sphagnum cuspidatum*. H21:** pool in blanket bog, 480 m alt., Glassamucky Mt/Military Road, O124207, 2010, M Lyons, conf. MO Hill.
- 1.29. *Sphagnum pulchrum*. H27:** blanket bog, in hummock hollow area, ca 40 m alt., east of Srahlea Bridge (Mweelrea, Sheeffry & Erriff SAC), L9795271271, 2010, JL Denyer; **H28:** lowland blanket bog, one patch only, becoming overgrown by *Rhododendron*, 30 m alt., south of small track south of Tawnyowen Bridge, near Castlegal, G734552, 2009, JL Denyer, conf. MO Hill.
- 1.30. *Sphagnum fallax*. H19:** degraded/recently cleared bog edge, ca 80 m alt., South Lodge Bog, Lullymore, N709251, 2010, J Denyer & R Duggan, conf. MO Hill.
- 1.31. *Sphagnum flexuosum*. 75:** in valley mire, Keekafar, NS2537205937, 2010, DA Callaghan, conf. MO Hill.
- 1.32. *Sphagnum angustifolium*. 69:** in neutral flush in heathland, Caws, SD2789388893, 2010, DA Callaghan 1102; **69:** rushy flush with *Straminergon stramineum*, 445 m alt., east of Lady Syke, Kaber Fell, NY8676208464, 2010, J O’Reilly; **106:** flush, 630 m alt., Coir’ a’ Mhuillinn, Strathconon Forest, NH2654, 2010, MO Hill; **106:** Flushed ground on heathy hillside, 550 m alt., Corravachie, Coire Lochain, NH4871, 2010, NG Hodgetts 7735.
- 1.34. *Sphagnum riparium*. 106:** ditch, by track to Wind Farm, north of Strath Rory River, NH65947764, 2010, EM Kungu, RJ Fisk & M Ghullam.
- 2.4. *Andreaea mutabilis*. 69:** wet rock surface on steep crags, ca 700 m alt., Ruthwaite Cove, below Dollywaggon Pike, NY3413, 2010, TL Blockeel 39/413.
- 2.8. *Andreaea megistospora*. H6:** scree on south-facing slope, 427 m alt., just north of east end of Coumshingaun Lough, S3285911147, 2010, B O’Hanrahan, det. DT Holyoak.
- 3.1. *Oedipodium griffithianum*. 46:** 20+ small patches on crumbly soil with abundant slate fragments, 430 m alt., Ffrwd yr Ydfran, Cwmystwyth, SN8232 7629, 2010, SDS Bosanquet.
- 4.2. *Atrichum tenellum*. 43:** on damp soil, edge of Carreg-ddu Reservoir near Rhayader, SN916668, 2010, M Lawley; **57:** exposed sandy soil on margin of reservoir, 240 m alt., Derwent Reservoir, SK165910, 2010, TL Blockeel 39/424; **70:** on bare peaty soil on margin of reservoir, 180 m alt., Thirlmere, NY3213, 2010, TL Blockeel 39/422; **92:** damp soil on track, near Corgarff, NJ294085, 2010, M Lawley.
- 6.2. *Pogonatum aloides*. 56:** dry sandy ground among restored heather, with *Campylopus introflexus*, ca 50 m alt., Ollerton Corner, SK6467, 2010, NG Hodgetts 7715.
- 6.3. *Pogonatum urnigerum*. H11:** ditch side between road and conifer-planted heathland, with *Polytrichastrum alpinum*, 155 m alt., Bishopmountain, S608244, 2010, SDS Bosanquet & CD Preston.
- 7.1. *Polytrichastrum alpinum*. H11:** ditch side between road and conifer-planted heathland, with *Pogonatum urnigerum*, 155 m alt., Bishopmountain, S608244,

- 2010, SDS Bosanquet & CD Preston; **H31**: Species-rich acidic grassland, Doolargy, Ravensdale, J10681 13273, 2010, J Roche, det. NG Hodgetts.
- 8.1.b. *Polytrichum commune* var. *perigoniale*. 49**: in dry calcareous turf, 470 m alt., Snowdon, SH63555509, 2009, KS Birch, det. SDS Bosanquet; **92**: path across grouse moor, ca 520 m alt., Roar Hill, NJ3903, 2010, EM Kungu; **95**: forestry track, Fairies' Temple, NJ2378 5393, 2010, SDS Bosanquet; **H20**: forestry track, 90 m alt., Coolalug, T071743, 2010, SDS Bosanquet.
- 8.2. *Polytrichum piliferum*. H11**: dry rocks along riverside path, in small quantity, 80 m alt., Poulanassy Waterfall, S547237, 2010, SDS Bosanquet & CD Preston.
- 8.4. *Polytrichum strictum*. 27**: poor fen, with *Sphagnum capillifolium*, ca 3 m alt., Catfield Fen (Butterfly Conservation Reserve), TG36942113, 2010, CR Stevenson.
- 9.1. *Tetraphis pellucida*. H11**: shaded soil in rock crevices in valley, 90 m alt., Kilmanahin, S467265, 2010, SDS Bosanquet & CD Preston.
- 11.1. *Buxbaumia aphylla*. 30 in ()**: ca 145 m alt., Aspley Wood, SP93, 1840, C Gaye (record based on accurate painted illustration by Caroline Gaye, preserved in Luton Museum, comm. A. Outen).
- 12.1. *Diphyscium foliosum*. 94**: soil bank, roadside east of Tombae, Tomnavoulin, NJ224256, 2010, M Lawley.
- 14.1. *Encalypta streptocarpa*. 38**: concrete embankment, side of reservoir, north-west-facing aspect, ca 100 m alt., Draycote Water, south-west of Rugby, SP459691, 2010, AN Saunders.
- 17.1. *Physcomitrium pyriforme*. 106**: damp pasture at edge of village, Portmahomack, NH91308403, 2010, EM Kungu, RJ Fisk & M Ghullam.
- 18.1. *Aphanorrhagma patens*. 33**: bank of recently excavated hollow in bed of dried-up pool, 10 m alt., Lower Rea, near Quedgeley, SO801153, 2010, RV Lansdown; **34**: abundant in seasonally inundated depressions in enclosure, Slimbridge WWT Reserve, New Grounds, SO719047, 2010, DA Callaghan, S Pilkington, P Hanson & RV Lansdown.
- 18A *Ephemerella readeri*. 64**: exposed mud, Lindley Wood Reservoir, SE24, 2006, EJ Hooper, new to Britain and Europe (see Hooper *et al.*, 2010).
- 21.1.b. *Schistidium maritimum* subsp. *piliferum*. 112**: on south-east-facing rock outcrop by road, 5 m alt., Out Skerries, Housay, HU68277164, 2009, NG Hodgetts 7658, det. HH Blom, new to Britain (see Hodgetts, 2010).
- 21.3. *Schistidium platyphyllum*. 79**: on silty boulder by river, ca 135 m alt., Ettrick Water near Scaurhead, Bowhill Estate, NT42422712, 2010, DG Long 38990.
- 21.5. *Schistidium apocarpum*. 33**: gravestone, 170 m alt., north side of Lolesbourne church, SP004134, 2010, P Martin; **62**: on large base-rich boulder in stream bed below waterfall, ca 170 m alt., Saltergate Gill, ca 5 km north of Lockton, SE846947, 2010, TL Blockeel 39/434; **68**: on sandstone outcrop, ca 100 m alt., east of Routin Lynn, NT983367, 2010, J & C O'Reilly, det. SDS Bosanquet; **79**: on old concrete dam wall, damp woodland, ca 248 m alt., near Howleuchshiel, Robertson, NT41851425, 2010, DG Long, GP Rothero & D Bell 40348; **H11**: rocks by stream in wooded valley, Kilmanahin, S4626, 2010, SDS Bosanquet & CD Preston.
- 21.9. *Schistidium strictum*. 70**: on irrigated rocks on steep bank, 230 m alt., Tongue Gill, near Rosthwaite, Borrowdale, NY243153, 2010, TL Blockeel 39/421.
- 21.11. *Schistidium robustum*. 57**: on limestone outcrop on hillside, ca 425 m alt., High Edge, SK064685, 2010, TL Blockeel & AJ Hodgson 39/384; **59**: on limestone boulder in disused quarry, 95 m alt., Salthill, Clitheroe, SD756426, 2010, TL Blockeel & North-Western Naturalists 39/426.
- 21.14.a *Schistidium frigidum* var. *frigidum*. Delete 112**: the specimen on which the record is based is *S. maritimum* subsp. *piliferum* (Hodgetts, 2010).
- 21.16. *Schistidium crassipilum*. 7**: on brickwork of bridge under GWR railway embankment, South Marston, SU2087, 2010, MO Hill; **38**: on churchyard wall, Wolfhampcote, SP529653, 2010, RH Carter; **56**: limestone ledge, 9 m alt., parish church, Newark, SK79935398, 2010, CR Stevenson; **74**: concrete by farm buildings, 50 m alt., Ervie Smithy, NW996678, 2010, DF Chamberlain & EM Kungu; **86**: concrete on retaining wall, Kilsyth, near the Garrell Burn, NS719783, 2010, DF Chamberlain; **90**: on drystone sandstone wall, open area by car park, ca 212 m alt., Balkello Wood, Sidlaw Hills, NO36443855, 2010, DG Long 38924.
- 21.17. *Schistidium elegantulum*. H6**: On stonework on top of cemetery wall, 20 m alt., Waterford, Cork Road cemetery, S580105, 2010, NG Hodgetts 7748.

- 22.11. *Grimmia longirostris*. 95:** on rocks in inundation zone of river, 120 m alt., River Spey at Knockando, NJ190416, 2010, GP Rothero 2010508.
- 22.15. *Grimmia incurva*. 106:** on dry surface of large rock in small area of scree, 580 m alt., crags east of and below Loch Coir'a Mhuilinn, Strathconon, NH266550, 2010, GP Rothero 2010101.
- 22.17. *Grimmia orbicularis*. 44:** dense cushions over ca 15 m of concrete below old wall, 50 m alt., Llandeilo central car park, SN630223, 2010, SDS Bosanquet; **59:** on Carboniferous Limestone rock of south-facing grassland slope, Worsaw Hill, SD7790143079, 2010, DA Callaghan 1071; **H20:** ca 40 cushions on east-facing wall of bridge, 130 m alt., River Slaney, south of Stratford, S88529291, 2010, SDS Bosanquet.
- 22.20. *Grimmia trichophylla*. 56:** sandstone capping on churchyard wall, Bothamsall, SK675733, 2010, RJ Fisk; **H11:** siliceous boulder, Poulanassy Waterfall, S547237, 2010, SDS Bosanquet & CD Preston.
- 22.21. *Grimmia lisae*. 105:** on rocks close to loch edge, in splash zone, 10 m alt., Loch Maree, Letterewe, NG95647066, 2010, O Moore.
- 22.23. *Grimmia muehlenbeckii*. 49 in (j):** with *Frullania tamarisci*, *Pterogonium gracile* & *G. ramondii*, Cwm Idwal, SH65, 1924, CH Binstead, det. RD Porley (BBSUK); **H3:** basic rock outcrop, 360 m alt., Mount Gabriel, V93303487, 2009, SDS Bosanquet.
- 22.25. *Grimmia decipiens*. 106:** glacial erratic, by road, to north of road, Craigie Wood, Black Isle, NH672509, 2010, EM Kungu; **H31:** occasional on gabbro boulders, Carlingford Mountain south-west, J13171386, 2010, SDS Bosanquet, J Denyer *et al.*
- 22.27. *Grimmia ramondii*. 93:** shallow soil over rock, hillock south-west of Upper Howbog, near Cabrach, NJ398261, 2010, M Lawley; **H31:** rock slab below gabbro crag, Carlingford Mountain south-west, J1328 1373, 2010, SDS Bosanquet, J Denyer *et al.*
- 23.2. *Racomitrium aciculare*. 6:** small quantity on stones, upper part of East Twin Brook, Black Down, Mendip Hills, ST4790257899, 2010, S Pilkington; **33:** among *Schistidium apocarpum*, gravestone, 170 m alt., north side of Lolesbourne church, SP004134, 2010, P Martin; **53:** on horizontal base of sandstone tomb, ca 40 m alt., Sedgebrook churchyard, SK85763806, 2010, CM Pannell, MO Hill *et al.*
- 23.3. *Racomitrium aquaticum*. H11:** damp rock face in quarry, 175 m alt., Cloghscregg, S632445, 2010, SDS Bosanquet & CD Preston.
- 23.7. *Racomitrium affine*. 67:** 300 m alt., west of Round Hill, Wark Forest, NY7377, 2009, J & C O'Reilly, conf. AJE Smith; **92:** on acid crag in steep-sided valley above lochan, 615 m alt., Poll Bhat, west of the Dubh Ghleann, Mar Lodge estate, NO05939569, 2010, GP Rothero 2010519; **94:** boulder, ca 350 m alt., Allt Beag Valley, Ben Rinnes, S. slope, NJ260338, 2010, EM Kungu, RJ Fisk & CD Preston; **106:** rock outcrops above river, ca 350 m alt., Strath Rory river, NH646781, 2010, EM Kungu, RJ Fisk & M Ghullam.
- 23.8. *Racomitrium heterostichum*. H11:** granite boulder in clear-felled forestry, 180 m alt., Cloghscregg, S632 444, 2010, SDS Bosanquet & CD Preston.
- 23.12. *Racomitrium elongatum*. 75:** on thin soil over slabby base-rich rocks, 170 m alt., south side of Knockdolian, north-east of Ballantrae, NX114846, 2010, GP Rothero, E Kungu & DF Chamberlain 2010516.
- 27.1. *Brachydontium trichodes*. 67:** sandstone boulders on reservoir margin, 185 m alt., Kielder Column, NY643911, 2010, J & C O'Reilly; **H20:** on granite boulder by burn, 350 m alt., north bank of river above Liffey Bridge north-west of Sally Gap, Wicklow Hills, O11011276, 2010, GP Rothero & J Denyer 2010008.
- 28.1. *Seligeria pusilla*. 40:** on side of calcareous sandstone outcrop, Pole Gutter, Brown Clee Hill, SO595852, 2010, M Lawley.
- 28.2. *Seligeria acutifolia*. H11:** limestone outcrop in open woodland, 180 m alt., Tubbrid valley, S356615, 2010, SDS Bosanquet & CD Preston.
- 28.9. *Seligeria donniana*. 41:** damp side of embedded limestone stone by woodland path, 15 m alt., Northill Wood, Penard Valley SSSI, SS54288888, 2010, SDS Bosanquet.
- 29.1. *Archidium alternifolium*. 92:** *Picea* plantation, on muddy forest track, 368 m alt., base of Hill of Tornahaish, Rinn Dearg, NJ29350841, 2010, D Bell, DF Chamberlain & M Lawley 296; **H31:** locally abundant on gravelly ground, Long Woman's Grave, J13041378, 2010, SDS Bosanquet, J Denyer *et al.*
- 30.1. *Fissidens viridulus*. 104:** Allotment by road just above beach, 2 m alt., Uig, Cuil, NG389624, 2010, NG Hodgetts 7725.

- 30.2. *Fissidens crispus*. 6:** on shaded stone/thin soil in stream ravine, upper part of East Twin Brook, Black Down, Mendip Hills, ST4792257910, 2010, S Pilkington.
- 30.3. *Fissidens pusillus*. 56:** on stone (?oolite) in small deep wooded gully, ca 90 m alt., Thurgarton Quarters, SK653513, 2010, NG Hodgetts 7716; **H11:** sandstone rock in stream, Kilmaganny, S4433, 2010, SDS Bosanquet & CD Preston.
- 30.4. *Fissidens gracilifolius*. 38:** base of limestone monument, Wellesbourne churchyard, SP2755, 2010, MO Hill.
- 30.11. *Fissidens exilis*. 69:** steep bank of small stream in wet woodland planted with conifers, ca 20 m alt., Lane Park, south-west of Cartmel, SD370779, 2002, W Nelson; **H11:** bank in pasture, Spa Hill, S344676, 2010, SDS Bosanquet & CD Preston.
- 31.1. *Pleuroidium acuminatum*. 53:** on soil under conifers, 25 m alt., Bourne Wood, TF081216, 2008, R Harding 93; **56:** on disturbed soil in acid grassland, Sherwood Heath LNR, Ollerton, SK6467, 2010, J Graham.
- 31.2. *Pleuroidium subulatum*. 75:** bare patch in turf above path, Loudoun Hill, NS612378, 2010, CR Kwella (voucher in E); **H11:** soil of grave, 70 m alt., Mullinavat Church, S567243, 2010, SDS Bosanquet & CD Preston.
- 34.3. *Ditrichum lineare*. 93:** on infrequently used forestry track, 350 m alt., near Cabrach House, NJ387261, 2010, O Moore.
- 34.4. *Ditrichum plumbicola*. 65:** old lead mine spoil, 400 m alt., East Grain, Swinner Kirk Gill, east of Keld, Swaledale, NY913012, 2009, JG Duckett; **69:** lead mine spoil with *Solenostoma gracillimum*, 350 m alt., Greenside Mine, Helvellyn, NY363174, 2010, S Pressel & JG Duckett.
- 34.5. *Ditrichum heteromallum*. H11:** damp clay on bank on north side of conifer plantation, Bishops Mountain, S606245, 2010, SDS Bosanquet & CD Preston.
- 34.8. *Ditrichum flexicaule*. 6:** on WSW-facing open stony steepish slope forming low dense turf covered with branchlets, growing with *Trinia glauca*, Crook Peak, ca 7 km south-east of Weston-Super-Mare, ST385556, 2010, FJ Rumsey & HJ Crouch; **33:** thin soil over rocky ground, 250 m alt., along path near the Rising Sun, Cleeve Common, SO983263, 2010, RV Lansdown & E Phillips; **40:** outcrop of base-rich sandstone, Brown Clee Hill, SO595852, 2010, M Lawley; **59:** semi-bare stony ground in disused limestone quarry, 95 m alt., Salthill, Clitheroe, SD756426, 2010, TL Blockeel & North-Western Naturalists 39/425; **H34 in 0:** Rosstown, G8569, 1916, W Lett, det. AJE Smith (record incorrectly assigned to H35 in Smith, 1993) and subsequently excluded from *Census Catalogue*).
- 34.9. *Ditrichum gracile*. 65:** on ledge of limestone crag in gill, 430 m alt., Gunnerside Gill, Swaledale, NY940011, 2010, TL Blockeel 39/156; **80:** on boulder, heavily grazed calcareous grassland, ca 240 m alt., Stonyford Moss near Ashkirk, NT48502039, 2010, DG Long, GP Rothero & D Bell 40352; **81:** on calcareous rock outcrop, coastal grassy banks, ca 5 m alt., Homeli Knowe, Coldingham Bay, NT91806639, 2010, DG Long 39400; **92:** boulder in pasture, Delavine, near Corgarff, NJ283082, 2010, M Lawley; **106:** in turf on cliffs, Wilkham, near Tarbat Ness, NH94.86., 2010, RJ Fisk; **H11:** limestone outcrop in open woodland, 180 m alt., Tubbrid valley, S353618, 2010, SDS Bosanquet & CD Preston; **H14:** river valley with base-rich seepage and recent landslides, 200 m alt., Glenbarrow, Slieve Blooms, N36130759, 2010, M Lyons; **H22:** rocky outcrop among calcareous grassland, ca 352 m alt., Dollardstown (Beauparc), Slane, N929721, 2010, M Eakin.
- 36.1. *Distichium capillaceum*. 75:** sandstone bridge over disused railway, Loudounhill Sand Quarry, NS606369, 2010, DF Chamberlain.
- 36.2. *Distichium inclinatum*. 107:** in short damp turf on path, sand dunes, ca 2 m alt., near Dornoch airstrip, NH80398850, 2010, DG Long 39458.
- 44.1. *Oncophorus virens*. 105:** among stones on shore of Loch Maree, ca 15 m alt., Beinn Eighe, Coille na Glas Leitire, NH002650, 2010, NG Hodgetts 7747, conf. GP Rothero.
- 45.1. *Dichodontium pellucidum*. H11:** gravel in wooded valley by stream, 110 m alt., Kilmaganny, S44783374, 2010, SDS Bosanquet & CD Preston.
- 45.2. *Dichodontium flavescens*. 86:** mossy rocks in stream, 115 m alt., Below Baillie Bow's Bridge, NS652922, 2010, D Bell (voucher in E); **92:** on wet calcareous rock by burn, 470 m alt., by Derry Burn, Glen Derry, NO04399574, 2010, GP Rothero 2010174; **96:** by stream in ravine, 150 m alt., Divach Falls, NH4927, 2010, MO Hill; **102:** on more or less base-rich rock by

- waterfall, 90 m alt., Abhainn na Corpaich, north-west coast of Jura, NR570903, 2010, GP Rothero 201071; **H31**: in small stream with 'cascade', 280 m alt., east of 'The Ravens Rock', Corraikit, Cooleys, J14341282, 2010, M Eakin.
- 46.1. *Dicranoweisia cirrata*. H11**: rocks on moorland adjacent to conifer plantation, 240 m alt., north-west of Brownstown, S461334, 2010, SDS Bosanquet & CD Preston; **H31**: one cushion on rock on hillside, south-west of Windy Gap, J13021323, 2010, SDS Bosanquet, J Denyer *et al.*
- 49.1. *Glyphomitrium daviesii*. H31**: frequent on gabbro boulders, Carlingford Mountain south-west, J13141389, 2010, SDS Bosanquet, J Denyer *et al.*
- 50.1. *Schistostega pennata*. 6**: in crumbling sandstone overhangs in stream ravine, East Twin Brook, Black Down, Mendip Hills, ST4791957926, 2010, S Pilkington.
- 52.3. *Dicranella crispa*. 40**: soil, steep bank of quarry spoil, Clee Hill, Catherton Common, SO616776, 2010, M Lawley.
- 53.2. *Dicranum bonjeanii*. H14**: calcareous fen, ca 100 m alt., Portlaoise Great Heath, N533014, 2010, M Eakin; **H31**: one patch in base-rich flush, south-west of Windy Gap, J13021320, 2010, SDS Bosanquet, J Denyer *et al.*
- 53.12. *Dicranum tauricum*. 88**: tree trunk, in a copse, Edge of Bankfoot, NO056354, 2010, DF Chamberlain & EM Kungu.
- 53.13. *Dicranum montanum*. 38**: on alder in deciduous woodland, 125 m alt., Hartshill Hayes, Hartshill, SP3294, 2010, TL Blockeel 39/445; **94**: alder trunk by stream, Tombae, near Tomnavoulin, NJ218258, 2010, M Lawley; **94**: on a rotting log, near Dullan Water, Dufftown, NJ322382, 2010, M Lawley.
- 56.2. *Campylopus subulatus*. 40**: soil beside track, Catherton Common, Clee Hill, SO616776, 2010, M Lawley; **94**: damp soil, quarry floor, Tombae, Tomnavoulin, NJ218258, 2010, M Lawley; **95**: damp soil on disused railway track, Knockando, NJ184415, 2010, M Lawley; **H14**: gravelly track, ca 340 m alt., Slieve Bloom Mountains, near Cappard, N36361 06167, 2010, DF Chamberlain; **H31**: with *Archidium* & *Marsipella funckii* in disused quarry, Windy Gap, J13061366, 2010, SDS Bosanquet, J Denyer *et al.*
- 56.3. *Campylopus schimperi*. 106**: crevice of rocks, ca 700 m alt., above Loch Gorm, Fannich Forest, NH2369, 2010, MO Hill.
- 56.5. *Campylopus fragilis*. 94**: earth bank by calcareous flush, 390 m alt., Coyglass Water, NJ21201548, 2010, SDS Bosanquet; **H11**: bank by track to quay above estuary, 15 m alt., The Pink Point, S684230, 2010, SDS Bosanquet & CD Preston.
- 56.13. *Campylopus brevipilus*. 106**: peaty ground in bog, 20 m alt., near Loch Eye, NH8280, 2010, MO Hill.
- 57.2. *Leucobryum juniperoideum*. 105**: wooded ravine, on mossy bank, ca 85 m alt., Allt a' Char, Dundonnell, NH11338780, 2008, DG Long & GP Rothero 37790; **H11**: peaty woodland bank, Kilmanahin, S467265, 2010, SDS Bosanquet & CD Preston.
- 60.1.b. *Weissia controversa* var. *crispata*. H11**: limestone outcrop in open woodland, 180 m alt., Tubbrid valley, S356615, 2010, SDS Bosanquet & CD Preston; **H20**: mortar lines of bridge, Kilcommon Bridge, T042720, 2010, SDS Bosanquet.
- 60.3. *Weissia rutilans*. 90**: crumbling rock face, apparently in a disused quarry, 300 m alt., Balkello Hill, Sidlaws, NO367393, 2010, DF Chamberlain *et al.* (voucher in E).
- 60.5.b. *Weissia brachycarpa* var. *obliqua*. 96**: earth bank, near river, Strath Farrar, north bank of river, downstream from power station, NH379405, 2010, EM Kungu; **H11**: forestry track surfaced with limestone, 175 m alt., Cloghscregg, S632445, 2010, SDS Bosanquet & CD Preston.
- 61.9. *Tortella flavovirens*. H11**: estuarine rocks, 5 m alt., The Pink Point, S684230, 2010, SDS Bosanquet & CD Preston.
- 62.1. *Trichostomum brachydontium*. H11**: estuarine rocks, 5 m alt., The Pink Point, S684230, 2010, SDS Bosanquet & CD Preston.
- 70.1. *Leptobarbula berica*. 5**: in crevice in disused limestone quarry, Hamdon Hill Country Park, Stoke sub Hamdon, ST481165, 2010, A Branson; **H11**: wall by river, 80 m alt., Poulanassy Waterfall, S547237, 2010, SDS Bosanquet & CD Preston; **H11**: damp mortar of castle wall, Kilkenny City, S509557, 2010, SDS Bosanquet & CD Preston.
- 72.1. *Ephemerum recurvifolium*. H20**: compacted earth by lane, 60 m alt., south-west of Bray, O24741646,

- 2010, SDS Bosanquet, conf. DT Holyoak, new to Ireland.
- 74.1. *Dialytrichia mucronata*. 20:** base of wind-thrown willow, 30 m alt., by River Stort, Hunsdon Hall, TL419113, 2009, AN Saunders & CTW Tipper; **38:** on weathered concrete footbridge, ca 75 m alt., Butlers Marston, Kineton, SP319504, 2010, RH Carter.
- 74.2. *Dialytrichia saxicola*. 17:** concrete hard defences of River Thames, west bank, Laleham, TQ049677, 2010, RV Lansdown & N Monaco; **21:** concrete hard defences of River Thames, east bank, Laleham, TQ050677, 2010, RV Lansdown & N Monaco; **33:** on trunk of Snake Bark Maple, 120 m alt., Abbey grounds, Cirencester, SP0235902302, 2010, P Martin.
- 75.2. *Pseudocrossidium revolutum*. 38:** on churchyard wall, 90 m alt., Wolfhampcote, SP529653, 2010, RH Carter.
- 77.2. *Leptodontium gemmascens*. 34:** on thatch, 40 m alt., No 1, Blaise Hamlet, Blaise Castle Estate, Bristol, ST559789, 2010, RV Lansdown.
- 78.1.b. *Barbula convoluta* var. *sardoa*. 27:** on sandy bays at edge of stream, 25 m alt., Reephams, TG10812280, 2010, M Ghullam, det. RW Ellis; **56:** on basic soil, ca 15 m alt., Norwell churchyard, SK776617, 2010, M Pool; **61:** on limestone rockery in a neglected garden, 'The Wilderness', site of Londesborough Hall, SE867454, 2010, C Wall; **70:** on old mortar of sandstone wall, Camp Farm, Maryport, NY0400537240, 2010, DA Callaghan; **96:** waste ground below road, ca 20 m alt., Moss-side, NH855550, 2010, EM Kungu & DF Chamberlain.
- 79.1. *Didymodon acutus*. 58:** on calcareous waste (old lime bed) in open scrub, Plumley Lime Beds SSSI, SJ7082675202, 2010, DA Callaghan 1078.
- 79.4. *Didymodon nicholsonii*. 34:** roadside path, 70 m alt., Tortworth, ST697932, 1992, P Martin; **38:** edge of driveway, 85 m alt., Austrey, SK295062, 2010, MO Hill & TL Blockeel; **53:** asphalt driveway, ca 40 m alt., Sedgebrook, SK856379, 2010, MO Hill, CM Pannell *et al.*; **54:** concrete wall next to canal, ca 5 m alt., Torksey Lock, SK838780, 2010, NG Hodgetts 7718; **H20:** tarmac of pavement, 185 m alt., Stratford, S890937, 2010, SDS Bosanquet.
- 79.6. *Didymodon umbrus*. 54:** on driveway of house, near New Bolingbroke church, TF308579, 2010, MO Hill & CR Stevenson; **H11:** mortar of ruined building on wooded river bank, 40 m alt., River Nore below Lavistown House, near Kilkenny, S54265405, 2010, SDS Bosanquet & CD Preston.
- 79.7. *Didymodon vinealis*. 38:** on churchyard wall, 90 m alt., Wolfhampcote, SP529653, 2010, RH Carter; **H11:** shaded silty wall of building near minor road bridge over River Pil, 10 m alt., Piltown, S458224, 2010, SDS Bosanquet & CD Preston.
- 79.12. *Didymodon tophaceus*. H11:** on soft, low estuarine cliff between river and coast road, 3 m alt., The Pink Point, Bearstown, S684230, 2010, SDS Bosanquet & CD Preston; **H18:** on edge of petrifying spring mound with *Eucladium verticillatum*, 173 m alt., Glinsk/Camcor petrifying spring, N21850445, 2010, C Campbell & N Lockhart; **H19:** drain with base-rich seepage and calcareous deposits, 110 m alt., Hartwell Lower, Kill, N95252200, 2010, M Lyons.
- 79.16. *Didymodon ferrugineus*. 80:** on boulder, heavily grazed calcareous grassland, ca 240 m alt., Stonyford Moss near Ashkirk, NT48502039, 2010, DG Long, GP Rothero & D Bell 40351; **H11:** forestry track on limestone, 175 m alt., Tubbrid valley, S353618, 2010, SDS Bosanquet & CD Preston; **H20:** surfaced forestry track, Ballinabarney Gap, S991896, 2010, SDS Bosanquet.
- 82.3. *Aloina aloides*. H20:** earth-topped wall by road, Druid's Heath, Kilcoole, O290072, 2010, SDS Bosanquet.
- 83.2. *Tortula schimperi*. Delete 22:** The specimen on which the record is based (*Field Bryology* 100, p. 75: Warfield Park, Bracknell, SU8969, 1986, MC Watling) is *Tortula marginata*; **24:** on steep, acid clay bank, amidst *Fagus* roots, adjacent to steps by Dell, Burnham Beeches north-west of Slough, SU94388451, 2007, FJ Rumsey (reinstatement of record published in *Field Bryology* 95 p. 57, omitted in error from *Census Catalogue*); **33:** clay on the edges of track through woods, 135 m alt., near Croft Farm, Cud Hill, south-east of Gloucester, SO855136, 2010, RV Lansdown.
- 83.13. *Tortula amplexa*. 56:** with *Barbula unguiculata* on patches of open soil in short grassland on old gravel pit area, part shaded by *Salix* trees, ca 12 m alt., Besthorpe Pits (Notts WT Reserve), SK81666495, 2010, DT Holyoak 10-01.

- 83.17. *Tortula modica*. 61:** soil between tree roots, Barmby on the Marsh, Tidal Barrage Amenity Site, SE6828, 2010, C Wall; **H11:** cereal stubble field, 60 m alt., Ardalo, south of minor road, S467634, 2010, SDS Bosanquet & CD Preston.
- 83.19. *Tortula protobryoides*. 1:** partly bare patches of loamy soil among short mosses and grasses on exposed slope just above low slaty sea cliff, ca 8 m alt., Pentire Point East, SW7851661263, 2010, DT Holyoak & D Callaghan 10-25.
- 84.1.a. *Phascum cuspidatum* var. *cuspidatum*. H20:** compacted earth by lane, 60 m alt., south-west of Bray, O24741646, 2010, SDS Bosanquet.
- 85.2.a. *Microbryum davallianum* var. *davallianum*. H20:** compacted earth by lane, 60 m alt., south-west of Bray, O24741646, 2010, SDS Bosanquet.
- 86.1. *Hennediella stanfordensis*. 56:** shaded muddy trackside lightly used by vehicles, 15 m alt., east bank of River Trent alongside marina, East Bridgeford, SK6870043490, 2010, CD Preston & CR Stevenson.
- 86.2. *Hennediella macrophylla*. 15:** bare soil of main footpath, 60 m alt., Broomfield Wood, near Leeds, TQ83955270, 2010, J Hendey.
- 86.3. *Hennediella heimii*. 56:** exposed colliery waste, above pool, Oxton Colliery tip, SK6076451555, 2010, DF Chamberlain E00350677; **H11:** estuarine rocks, 5 m alt., The Pink Point, S684230, 2010, SDS Bosanquet & CD Preston.
- 89.1.b. *Syntrichia ruralis* var. *ruraliformis*. 34:** on old industrial waste site, 15 m alt., Lamplighters, Bristol, ST525766, 2010, Justin Smith.
- 89.3. *Syntrichia montana*. H20:** wall top, 50 m alt., south-west of Bray, O246166, 2010, SDS Bosanquet.
- 89.5. *Syntrichia virescens*. 7:** on bark of willow, by River Kennett, Cooper's Meadow, Marlborough, SU189689, 2010, S Pilkington; **H21:** depressions in tarmac, 10 m alt., outside the Montrose Hotel, Dublin, O192300, 2009, JG Duckett.
- 89.6. *Syntrichia laevipila*. 39:** on *Sambucus nigra*, Manifold Valley, near Wetton Mill, SK094563, 2010, M Godfrey; **39:** small tuft on trunk of ash tree, 240 m alt., near Grove farm, Stanshope, Alstonefield, SK128 547, 2010, TL Blockeel 39/008.
- 89.7. *Syntrichia papillosa*. 56:** epiphytic on willow, 9 m alt., Newark, SK79135369, 2010, CR Stevenson & RJ Fisk; **57:** on trunk of willow, 60 m alt., Markeaton Park, Derby, SK333379, 2010, TL Blockeel 39/163; **74:** on concrete ramp in yard, 65 m alt., Ervie Smithy, east of Kirkcoln, NW995677, 2010, GP Rothero, E Kungu & DF Chamberlain 2010515; **H20:** *Acer platanoides* in village square, 185 m alt., Stratford, S890937, 2010, SDS Bosanquet.
- 90.1. *Cinclidotus fontinaloides*. 94:** boulders at edge of river, 60 m alt., River Deveron, Marnoch, NJ591501, 2010, E Kungu & D Chamberlain; **H14:** retaining wall, canal lock, 50 m alt., River Barrow, above Clogrenan Bridge, S7073, 2010, D Doogue, det. M Lyons.
- 91.1. *Tayloria lingulata*. 94:** ca 300 shoots on damp clay in crevices by river, 420 m alt., Ailnack Gorge, NJ14071435, 2010, SDS Bosanquet.
- 94.1. *Splachnum sphaericum*. 86:** cow pat in a bog, 165 m alt., North of Gribloch, Loch Laggan, NS6307292806, 2010, S Kennedy (voucher in E).
- 94.2. *Splachnum ampullaceum*. 94:** with much more frequent *S. sphaericum* on an old cow pat on *Eriophorum vaginatum*–*Trichophorum caespitosum* s.l.–*Sphagnum* bog, 325 m alt., Glack of Breagach, Glen Rinnes, NJ2533 3196, 2010, CD Preston, RJ Fisk & EM Kungu.
- 98.1. *Leptobryum pyriforme*. 33:** concrete culvert and adjacent soil on ditch bank, 10 m alt., Hempsted, SO812169, 2010, RV Lansdown; **96:** rough ground, south of road, Moss Side, NH857551, 2010, EM Kungu & DF Chamberlain; **96:** disturbed ground by power station building, 60 m alt., west of Struy, NH3740, 2010, MO Hill.
- 99.1.b. *Zygodon viridissimus* var. *stirtonii*. H11:** shaded silty wall of minor road bridge over River Pil, 10 m alt., Piltown, S458224, 2010, SDS Bosanquet & CD Preston.
- 99.2. *Zygodon rupestris*. 28:** epiphytic on old Bramleys, 3 m alt., Bustards Lane, Walpole St Andrew, TF513177, 2009, CR Stevenson.
- 99.3.a. *Zygodon conoideus* var. *conoideus*. 56:** on fallen poplar in derelict, flooded poplar plantation, 40 m alt., Gosling Carr, north-west of Walesby, SK660719, 2010, CD Preston.
- 100.1. *Orthotrichum lyellii*. 38:** on oak in wet woodland, Pooley Country Park, SK2504, 2010, MO Hill; **94:** on bark of moribund elm in woodland, 70 m alt., on north side of River Deveron, between B9117 road and river

- west of Marnoch, NJ59025009, 2010, CD Preston, DF Chamberlain & EM Kungu.
- 100.2. *Orthotrichum striatum*. 16:** on willow near stream, 45 m alt., Dene Park, Tonbridge, TQ603517, 2010, J Hendey; **39:** on trunk of ash tree, 250 m alt., near Grove farm, Stanshope, Alstonefield, SK128546, 2010, TL Blockeel 39/009; **59:** on sycamore, 85 m alt., Spring Wood, Whalley, SD741361, 2010, TL Blockeel 39/386.
- 100.6. *Orthotrichum rupestre*. 94:** on boulder by river, Black Water, NJ3730, 2010, M Lawley.
- 100.8. *Orthotrichum obtusifolium*. 94:** on very large hybrid poplar (*Populus x canadensis*), lots of cushions on one tree, 75 m alt., ca 600 m north of Bridge of Fiddich, Craigellachie, NJ29364579, 2009, A Amphlett.
- 100.10. *Orthotrichum cupulatum*. 104:** on concrete blocks on top of perimeter wall, ca 10 m alt., Kilmarie burial ground, NG553172, 2010, NG Hodgetts 7702.
- 100.11. *Orthotrichum rivulare*. 106:** on boulder, wooded river bank, ca 105 m alt., Alness River near Dalmore House, Alness, NH65516921, 2010, DG Long, MO Hill & A Horwath 39414.
- 100.13. *Orthotrichum stramineum*. 56:** on trunk of sycamore by stream below spring at base of wooded road cutting, 90 m alt., south-west of Calverton, SK6048, 2010, CD Preston & CR Stevenson; **59:** on sycamore in open woodland, Victoria Park, Haslingden, SD7868522347, 2010, DA Callaghan 1073; **61:** epiphyte on ash, Moors Wood, Burton Constable, TA1837, 2010, C Wall.
- 100.14. *Orthotrichum tenellum*. 27:** epiphytic on trunk of ash, 12 m alt., Saxlingham Thorpe, near Newton Flotman, TM2081697419, 2009, CR Stevenson; **38:** on *Salix*, 65 m alt., Pooley Country Park, Alvecote, SK252038, 2010, TL Blockeel 39/443; **106:** on trunk of old *Fraxinus*, grove of roadside trees, ca 5 m alt., near Kiltarn Church near Evanton, NH61596521, 2010, DG Long, MO Hill & A Horwath 39403; **H20:** *Acer platanoides* in village square, 185 m alt., Stratford, S890937, 2010, SDS Bosanquet.
- 100.16. *Orthotrichum pumilum* (incl. *O. schimperi*). 20:** rain track on small twin-trunked ash, at edge of plantation, with *O. diaphanum* and *Cryphaea heteromalla*, 200 m alt., Kensworth Quarry, Kensworth, TL030194, 2010, CTW Tipper.
- 100.18. *Orthotrichum pulchellum*. 38:** on *Salix*, 65 m alt., Pooley Country Park, Alvecote, SK253042, 2010, TL Blockeel 39/441.
- 100.19. *Orthotrichum consimile*. 24:** low on trunk of small ash in open woodland, 225 m alt., Flat Isley, near Ringshall, SP973140, 2010, CTW Tipper.
- 101.1. *Ulota coarctata*. 24:** thin horizontal oak branch, 215 m alt., Pitstone Common, SP972132, 2010, CTW Tipper; **104:** On willow, with *U. crispa* s.l., 80 m alt., Coulmacraggan, NG42124419, 2010, NG Hodgetts 7731.
- 101.3. *Ulota crispa*. 58:** on oak by car park, 210 m alt., Crowden, Longdendale, SK072993, 2010, TL Blockeel 39/370.
- 101.6. *Ulota hutchinsiae*. 92:** boulder by stream, Burn of Tornahaish, NJ292058, 2010, M Lawley.
- 102.1.a. *Hedwigia ciliata* var. *ciliata*. 49:** boulder tops at edge of upland lake, Ffynnon Lloer, Carneddau, SH6624162053, 2010, RG Woods, det. SDS Bosanquet.
- 102.2. *Hedwigia stellata*. 34:** on base of oak tree in deciduous woodland, Speech House Oaks SSSI, SO62381243, 2010, DA Callaghan; **74:** crags, 65 m alt., Galdenoch, above Drumawern, NW9648562753, 2010, EM Kungu & DF Chamberlain; **H11:** granite boulders on outer side of boundary wall of conifer plantation, 230 m alt., north-west of Brownstown, S461334, 2010, SDS Bosanquet & CD Preston.
- 102.3. *Hedwigia integrifolia*. H31:** on single boulder ca 20 m east of escarpment, ca 260 m alt., Slievenaglogh, J139090, 2010, M Eakin; **H37:** on single boulder, ca 380 m alt., ca 5 m from road and ca 100 m south of 'summit' car park, Slieve Gullion, J017205, 2010, M Eakin.
- 105.2. *Bartramia pomiformis*. H11:** thin layer of humic soil over acid rock in valley, 90 m alt., Kilmanahin, S466265, 2010, SDS Bosanquet & CD Preston; **H31:** in crevices in escarpment rock, ca 260 m alt., Slievenaglogh, J139090, 2010, M Eakin.
- 107.3. *Philonotis arnellii*. 75:** damp north-facing basaltic cliff, 130 m alt., Knockdolian Hill, NX115850, 2010, DF Chamberlain.
- 107.4. *Philonotis caespitosa*. 63:** on slab of wet gritstone rock, ca 330 m alt., Blakeley Reservoir, Wessenden, SE0550309545, 2010, H Lake.
- 107.8. *Philonotis calcarea*. 39:** calcareous flush, Stanton

- Pastures SSSI, SK1196346981, 2010, TE Holland;
H19: edge of pool in fen, 80 m alt., Kingsbog, N716084, 2010, M Lyons & D Doogue; **H31:** ca 10 m alt., 'Lokra' fen, J218095, 2010, M Eakin.
- 108.1. *Breutelia chrysocoma*. H11:** damp heath near roadside, at edge of recently planted plots of alder/birch/conifers, 155 m alt., Bishopsmountain, S606245, 2010, SDS Bosanquet & CD Preston.
- 109.1. *Plagiobryum zieri*. 75:** bare soil on cliff above stream, 260 m alt., Logan Burn, south of Darvel, NS571 344, 2010, DF Chamberlain.
- 111.6. *Bryum pallens*. H31:** in carpet on level ground on abandoned quarry 'terrace', ca 120 m alt., Collon, N998815, 2010, M Eakin.
- 111.9. *Bryum weigelii*. 103:** in spring with *Philonotis fontana*, 600 m alt., high on north slopes of Beinn Thunacaraidh, Mull, NM66943676, 2010, GP Rothero 2010504.
- 111.14. *Bryum archangelicum*. 25:** floor of disused sand/gravel pit, Westleton, TM441685, 2010, RJ Fisk, conf. DT Holyoak; **75:** on disturbed ground by stream, Blane Burn, NS2604707056, 2010, DA Callaghan 1154, det. DT Holyoak.
- 111.16. *Bryum donianum*. H11:** earth among out-cropping limestone east of Priory, Kells, S4943, 2010, SDS Bosanquet & CD Preston.
- 111.19. *Bryum moravicum*. Delete 2:** the voucher (BBSUK C.2001.019.9715: clay bank on edge of field above stream, near Three Gates, north of Treneglos, SX2189, 1972, JA Paton) is *Bryum pallens* with filamentous axillary gemmae, det. DT Holyoak.
- 111.20. *Bryum torquescens*. H11:** soil gaps in limestone pavement, Spa Hill, S344676, 2010, SDS Bosanquet & CD Preston.
- 111.23. *Bryum pallescens*. 94:** crevice in rock at bottom of cliff, Ailnack Gorge, NJ138142, 2010, M Lawley; **95:** on soil at base of wall below old corrugated iron roof, 230 m alt., old building at Yellowbog, by public road ca 8 km north of Knockando, NJ14674897, 2010, GP Rothero 2010509.
- 111.24.a. *Bryum pseudotriquetrum* var. *pseudotriquetrum*. 106:** marshy ground, 500 m alt., Allt Coire Lochain, Wyvis Forest, NH4871, 2010, MO Hill.
- 111.24.b. *Bryum pseudotriquetrum* var. *bimum*. 53:** on flat, seasonally waterlogged open ground, Whisby Nature Park, SK9167, 2010, MO Hill.
- 111.25. *Bryum caespiticium*. 94:** wall by the sea, 5 m alt., Portnockie, NJ4968, 2010, DF Chamberlain & EM Kungu.
- 111.29. *Bryum gemmiferum*. 95:** sandy river bank, Bridge of Calcotts, NJ254637, 2010, SDS Bosanquet; **H11:** dumped soil on waste ground grazed by tinkers' ponies, 60 m alt., Robertshill, near Kilkenny, S496557, 2010, SDS Bosanquet & CD Preston.
- 111.33. *Bryum radiculosum*. 7:** on shaded part of drystone (limestone) wall, Winsley, ST800609, 2010, J Presland; **92:** wall of ruined building, 170 m alt., by road south of Black Moss, Muir of Dinnet, NJ461010, 2010, CD Preston.
- 111.34. *Bryum rudérale*. 94:** roadside near burial ground, Glen Rinnes, NJ277336, 2010, RJ Fisk.
- 111.35. *Bryum violaceum*. 70:** in stubble field, 190 m alt., Little Blencow, north-east of Greystoke, NY459 338, 2010, TL Blockeel 39/407; **H11:** stubble field, 120 m alt., south of Harristown, S515268, 2010, SDS Bosanquet & CD Preston.
- 111.37. *Bryum sauteri*. 69:** bared soil (till over limestone) in pasture, ca 70 m alt., Merlewood Bank, Brown Robin CWT Reserve, Grange-over-Sands, SD412790, 2003, West Nelson; **94:** disturbed soil on stream bank, Donald Bain's Croft Plantation, near Portknockie, NJ4963, 2010, RJ Fisk.
- 111.40. *Bryum subapiculatum*. H31:** peaty disturbed soil, Carlingford Mountain south-west, J13231363, 2010, SDS Bosanquet, J Denyer *et al*.
- 111.47. *Bryum alpinum*. H31:** Siliceous rocky slope, Commons, south-east flank of Carlingford Mountain, J1789211459, 2010, J Roche, det. NG Hodgetts.
- 112.1. *Rhodobryum roseum*. H11:** a few stems amongst stones in woodland on side of valley over limestone, 180 m alt., Tubbrid Upper Valley, S356616, 2010, SDS Bosanquet & CD Preston; **H27:** grazed turf on steep maritime slope behind beach, ca 10 m alt., east of Keel, Achill Island, F6502, 2010, NG Hodgetts, N Lockhart & R Thompson 7789.
- 114.3. *Poblia cruda*. 40:** crevice between boulders, Magpie Hill, Catherton Common, SO614776, 2010, M Lawley.
- 114.6. *Poblia drummondii*. H31:** with *Archidium* & *Marsupella funckii* in disused quarry, Windy Gap,

- J13061366, 2010, SDS Bosanquet, J Denyer *et al.*
- 114.11. *Pohlia annotina*. 56:** sandy bank by path in woods, Sherwood Forest Country Park, SK631684, 2010, RJ Fisk.
- 114.13. *Pohlia camptotrachelia*. 70:** on bare peaty soil on margin of reservoir, 180 m alt., Thirlmere, NY3213, 2010, TL Blockeel 39/423.
- 114.16. *Pohlia lutescens*. 33:** clay on the edge of track through woods, 135 m alt., near Croft Farm, Cud Hill, south-east of Gloucester, SO855136, 2010, RV Lansdown; **H20:** bank above stream, 275 m alt., 30 m upstream of bridge, Ballinabarney Bridge, S977903, 2010, SDS Bosanquet.
- 114.17. *Pohlia lescuriana*. 43:** on damp soil, edge of Carreg-ddu Reservoir near Rhayader, SN916668, 2010, M Lawley.
- 115.1. *Epipterygium tozeri*. 33:** large anthill in grassland, immediately upslope from Nutter's Wood, Cleeve Hill, SO983257, 2010, RV Lansdown & E Phillips.
- 116.1. *Mnium hornum*. H19:** tree stump, 70 m alt., Killinthomas Woods, Rathangan, N66662185, 2010, K Harrington, det. JL Denyer.
- 116.5.a. *Mnium marginatum* var. *marginatum*. H11:** bank of river, 75 m alt., Dinin River, Ballyrafton Wood, S489635, 2010, SDS Bosanquet & CD Preston.
- 119.1. *Plagiomnium cuspidatum*. 104:** grazed turf on low coastal cliff, ca 15 m alt., Druim na Croisidh, Skuddaborg, NG3765, 2010, NG Hodgetts 7699.
- 119.2. *Plagiomnium affine*. 38:** grassy area on woodland floor, Upper Coal Spinney, Oldbury, SP303958, 2010, NJ Law.
- 119.3. *Plagiomnium medium*. 103:** in spring with *Philotis fontana*, 600 m alt., high on north slopes of Beinn Thunacaraidh, Mull, NM66943676, 2010, GP Rothero 2010505.
- 121.3. *Aulacomnium androgynum*. H11:** siliceous cliff by road next to estuary, 20 m alt., The Pink Point, S684232, 2010, SDS Bosanquet & CD Preston.
- 122.1. *Orthodontium lineare*. H11:** rotting tree stump, 175 m alt., Cloghscregg, S632445, 2010, SDS Bosanquet & CD Preston; **H22:** on north facing side of ditch beside track, on turf around birch roots, ca 80 m alt., Chamberlainstown, N710702, 2010, M Eakin.
- 127.1. *Daltonia splachnoides*. 44:** one tuft among *Colura* on *Salix* in *Picea* plantation, 320 m alt., Mynydd Trebeddau forestry south, SN48703267, 2010, SDS Bosanquet; **H20:** horizontal branch of willow overhanging stream, east of Ballinabarney Gap, S990896, 2010, SDS Bosanquet.
- 130.1.a. *Fontinalis antipyretica* var. *antipyretica*. H31:** on rock in small upland brook, ca 220 m alt., Doolargy, Cooley Mountains, J102127, 2010, M Eakin.
- 131.1. *Climacium dendroides*. 56:** Woodland floor, with *Atrichum undulatum*, Daneshill Lakes NR, north-west of Retford, SK669863, 2010, C Wall.
- 132.1. *Palustriella commutata*. H19:** tufa-forming spring in drain in field, 110 m alt., Hartwell Lower, Kill, N95032208, 2010, M Lyons.
- 132.2. *Palustriella falcata*. H19:** tufa-forming spring in drain in field, 110 m alt., Hartwell Lower, Kill, N95032208, 2010, M Lyons.
- 135.2. *Campyliadelphus elodes*. 101:** margin of loch, 79 m alt., Loch Nan Gad north shore, NR78390 57286, 2009, A McManus & T Coy.
- 136.3. *Amblystegium confervoides*. 69:** on shaded carboniferous limestone on woodland floor, Honeybee Wood, SD4820789943, 2010, DA Callaghan 1103.
- 137.1. *Hygroamblystegium fluviatile*. 96:** small boulders at edge of river, 21 m alt., Howford Bridge, River Nairn, NH877539, 2010, E Kungu & D Chamberlain.
- 137.2. *Hygroamblystegium tenax*. 86:** rocks by stream, 120 m alt., Above Bailie Bow's Bridge, NS6527692253, 2010, DF Chamberlain.
- 137.3. *Hygroamblystegium varium*. 56:** rotting willow log on ground in derelict willow holt by River Trent, 12 m alt., Farndon Willow Holt, SK776521, 2010, CD Preston & CR Stevenson; **65:** with *Rhynchostegiella teneriffae* on muddy rock ledge by stream, ca 295 m alt., Gunnerside Gill, Swaledale, SD9499, 2010, TL Blockeel 39/155.
- 137.4. *Hygroamblystegium humile*. 40:** on decorticated wood, margin of Apley Pool, Telford, SJ656135, 2010, M Lawley; **H30:** tall-herb swamp, Derrybrick Lough, ca 1 km south of Milltown, H3428812177, 2009, F Devaney & M O'Neill, det. NG Hodgetts.
- 138.1. *Leptodictyum riparium*. 79:** on fallen wood, reed bed by lake, ca 140 m alt., Lower Lake, Bowhill, NT42752725, 2010, DG Long 38986; **96:** damp flood zone at edge of river, 21 m alt., Howford Bridge, River Nairn, NH877539, 2010, E Kungu & D Chamberlain.

- 140.1. *Drepanocladus polygamus*. 39:** calcareous fen with *Eriophorum angustifolium*, Chasewater, SK032084, 2010, TE Holland; **106:** ditch at edge of track, Taindore Wood, track to Pitlurdie, Black Isle, NH674508, 2010, EM Kungu.
- 140.2. *Drepanocladus aduncus*. H11:** pool on waste ground, Robertshall, S496557, 2010, SDS Bosanquet & CD Preston; **H16:** machair slopes by sea, on wet rocks in coastal flush, ca 2 m alt., Omev Island, Gooreen Townland, north-west peninsula, L56855590, 2010, DG Long 38025; **H22:** 'hot spring' calcareous pond, ca 80 m alt., St Gormans Well, Ballynakill, N74054420, 2010, M Eakin; **H38:** seepage at coast, 0-10 m alt., St John's Point, J531337, 2010, D Doogue & M Lyons.
- 140.3. *Drepanocladus sendtneri*. 33:** sedge-rich flush below a spring, 230 m alt., Cockleford Marsh SSSI, SO872132, 2009, RV Lansdown, det. MO Hill.
- 143.8. *Hygrohypnum duriusculum*. 92:** in fast-flowing mountain burn at head of north-east-facing corrie, with *H. ochraceum*, ca 840 m alt., Tolmount, head of Glen Callater, NO20507996, 2010, NG Hodgetts 7809.
- 145.1. *Warnstorfia fluitans*. H21:** path edge, 500 m alt., Cruagh Mt., O13902192, 2010, M Lyons.
- 148.1. *Hamatocaulis vernicosus*. 90:** in short wet turf, margin of valley mire, ca 352 m alt., valley north-west of Auchterhouse Hill, Sidlaw Hills, NO35034051, 2010, DG Long 38934.
- 149.1. *Scorpidium revolvens*. 74:** coastal flush, 10 m alt., Barncorkrie, NX088355, 2010, DF Chamberlain; **94:** edge of bog, Glack of Breagach, NJ253319, 2010, EM Kungu.
- 149.2. *Scorpidium cossonii*. 33:** in calcareous marginal flush of River Windrush, Bassey NR, SP134223, RV Lansdown; **39:** calcareous flush, Stanton Pastures SSSI, SK1196346981, 2010, TE Holland; **74:** coastal flush, 10 m alt., Barncorkrie, NX088355, 2010, DF Chamberlain; **94:** calcareous fen, Coyglass Water, NJ21311544, 2010, SDS Bosanquet; **96:** bog by dam, among grass in boggy ground, 187 m alt., Castleton Village, NH70004164, 2010, D Bell & M Lawley 351; **105:** calcareous flush in wet heath, 100 m alt., Letterewe, NG95287184, 2010, O Moore; **H31:** in small rough grassland/scrubby area with flushing, ca 20 m alt., west of laneway, Millgrange, J214081, 2010, M Eakin.
- 149.3. *Scorpidium scorpioides*. H31:** in pool at 'White Bog', ca 380 m alt., Glenmore, Carlingford ('Cooley') mountains, J1545113021, 2010, J Brophy; **H31:** wet heath, Ballintesklin, N. end of Carlingford Mountain, J1357114430, 2010, J Roche, det. NG Hodgetts.
- 150.2. *Calliergon giganteum*. H19:** channel in fen, 70 m alt., Ummeras, Rathangan, N64841553, 2010, M Lyons & D Doogue; **H31:** north-eastern wetter, open parts of wetland area, ca 25 m alt., Millgrange, Greenore, J20460914, 2010, M Eakin.
- 163.2. *Platyhypnidium lusitanicum*. 75:** on boulder in swift-flowing stream, Ness Glen, NS4775001846, 2010, DA Callaghan; **106:** on wet rocks in small cascade, small wooded ravine, ca 100 m alt., Kincardine Burn, south of Ardgay, near Badvoun, NH58778866, 2010, DG Long & MO Hill 39497.
- 164.3. *Rhynchostegium megapolitanum*. 31:** bank of boundary ditch, north end of Holme Fen, TL201902, 2010, MO Hill; **64:** among herbs on gritty soil on ledge of ruined wall, Fountains Abbey, near Ripon, SE275682, 2000, TL Blockeel 29/389.
- 165.1. *Rhynchostegiella tenella*. 38:** base of limestone monument, Wellesbourne churchyard, SP2755, 2010, MO Hill.
- 165.3. *Rhynchostegiella curviseta*. 33:** on stone chip-pings around north side of church, 250 m alt., Elkstone, SO966123, 2010, P Martin.
- 166.1. *Cirriphyllum piliferum*. 92:** roadside bank near quarry, Craighash, NO6298, 2010, RJ Fisk.
- 167.1. *Oxyrrhynchium pumilum*. 53:** on stone on clay bank by river, ca 50 m alt., small wood south of Polo Club, Leadenham, SK95285149, 2010, JL Denyer & DF Chamberlain JLD-B-10-3; **53:** on soil in old limestone quarry, 45 m alt., near Newton, TF041369, 2010, M Pool.
- 167.3. *Oxyrrhynchium schleicheri*. 79:** on soil on base of *Tilia*, policy woodland, ca 170 m alt., Bowhill House, NT42692786, 2010, DG Long 38982.
- 167.4. *Oxyrrhynchium speciosum*. 53:** on wet muddy bank beside stream and in shade of bridge, River Witham, Syston, SK926409, 2010, J Graham.
- 169.4. *Sciuro-hypnum populeum*. H11:** rock in pasture, bridge west of Cloghscregg, S625446, 2010, SDS Bosanquet & CD Preston.
- 169.5. *Sciuro-hypnum plumosum*. H11:** rock by river

- in wooded valley, Kilmanahin, S4626, 2010, SDS Bosanquet & CD Preston.
- 170.1. *Brachythecium albicans*. 38:** short grassland, Shustoke Reservoir, SP23449133, 2010, NJ Law.
- 170.5. *Brachythecium mildeanum*. 67:** ca 70 m alt., Rising Sun Country Park/Silverlink Park, Wallsend, NZ36D, 2010, J O'Reilly; **H11:** forestry track, Corbally Wood, S5025, 2010, SDS Bosanquet & CD Preston.
- 170.7. *Brachythecium rivulare*. H19:** tufa cascade beside river, 120 m alt., Hartwell River, Hartwell Upper, Kill, N94382122, 2010, M Lyons.
- 171.1. *Scleropodium cespitans*. 7:** on basal part of a large ash tree, West Yatton Down, ST8588976409, 2010, S Pilkington; **61:** on limestone rockery by a pond in a neglected garden, 'The Wilderness', site of Londesborough Hall, SE867454, 2010, C Wall; **63:** on a stone garden wall, Clifton, near Conisbrough, SK5196, 2010, C Wall.
- 173.1. *Brachytheciastrum velutinum*. 94:** humic soil in riverside beech woodland, 70 m alt., on north side of River Deveron, between B9117 road and river W. of Marnoch, NJ588501, 2010, CD Preston, DF Chamberlain & EM Kungu.
- 174.2. *Homalothecium lutescens*. 38:** Newbold Quarry LNR, SP4976, 2010, NJ Law.
- 177.2. *Calliergonella lindbergii*. 107:** on stony track, damp wooded valley, ca 40 m alt., east end of Loch Migdale near Spinningdale, NH65289048, 2010, DG Long 39468.
- 178.1. *Taxiphyllum wissgrillii*. 53:** base of limestone quarry, soil over rock, Wilsford Heath Quarry, Ancaster, SK9841, 2010, M Ghullam, det. RW Ellis, conf. MO Hill.
- 181.4. *Hypnum andoi*. 31:** 30 m alt., Brampton Wood, TL1870, 2010, TG Charman; **38:** base of oak tree, 130 m alt., Hartshill Hayes, Hartshill, SP323943, 2010, TL Blockeel 39/444; **53:** on Bramley apple in garden, Westborough, SK8544, 2010, MO Hill; **95:** *Alnus* trunk, woodland by river, 65 m alt., River Spey, Bridge of Sourden, NJ2950, 2010, D Bell, SDS Bosanquet & RV Lansdown 310; **H11:** trunk of birch tree in conifer plantation, 180 m alt., Cloghscregg, S632444, 2010, SDS Bosanquet & CD Preston.
- 182.1. *Ptilium crista-castrensis*. 34:** a small stand beside the stream, west of the Pithouse, Wigpool Common, near Mitcheldean, SO652194, 2010, RV Lansdown; **57:** on remains of old stump on north-facing bank at edge of conifer plantation, 240 m alt., Ladybower Reservoir, SK179884, 2010, J Egan, R Holmes & H Lake.
- 184.1. *Hyocomium armoricum*. 6:** upper part of East Twin Brook, Black Down, Mendip Hills, ST47931 57981, 2010, S Pilkington; **95:** on rock at edge of river, 111 m alt., Leanoch Burn, Leanoch, NJ1944 5463, 2010, O Moore.
- 185.1. *Habrodon perpusillus*. 94:** on north side of mature sycamore at south edge of planted beech woodland, with *Frullania dilatata*, *Metzgeria furcata*, *Radula complanata* and *Orthotrichum stramineum*, 70 m alt., east side of drive to Ardmeallie House, north side of B9117 road opposite the Old Manse of Marnoch, Marnoch, NJ59305008, 2010, CD Preston, DF Chamberlain & EM Kungu.
- 186.2. *Heterocladium wulfsbergii*. 96:** edge of river, ca 250 m alt., River Affric, NH2007823063, 2009, M Hauxwell.
- 187.1. *Pterigynandrum filiforme*. 29:** epiphytic on apple tree, 3 m alt., Cranwell Lodge, High Street, Elm (near Wisbech), TF4722307118, 2010, CR Stevenson.
- 189.1. *Rhytidiadelphus triquetrus*. 38:** on grave in churchyard, 110 m alt., Ufton Church, SP37896215, 2010, NJ Law; **56:** in mown grass, 50 m alt., Laxton churchyard, SK723670, 2010, RH Carter.
- 189.4. *Rhytidiadelphus loreus*. 38:** on stone path next to old quarry, Hartshill, SP33149481, 2010, NJ Law; **61:** base of rotten tree stump, beech/conifer plantation, Bradeham Dale, west of Fridaythorpe, SE843581, 2010, C Wall.
- 190.1. *Loeskeobryum brevirostre*. 33:** base of *Fagus sylvatica* along collapsed wall, 170 m alt., Hailey Wood, Cirencester Park, SO962016, 2007, RV Lansdown; **H11:** bank by forestry track, 175 m alt., Cloghscregg, S632445, 2010, SDS Bosanquet & CD Preston.
- 192.1. *Hylocomium splendens*. 53:** acidic sandy soil, 53 m alt., Hartsholme Country Park, SK94486865, 2010, JL Denyer.
- 197.1. *Plagiothecium latebricola*. 44:** 30 x 30 cm patch

- on side of decaying tree stump, 40 m alt., Allt y Fan, SN645261, 2010, SDS Bosanquet.
- 197.4. *Plagiothecium laetum*. 25:** west side of base of huge *Tilia cordata*, east side of Priestley Wood, Barking, TM082530, 1993, KJ Adams & R Kilshaw.
- 197.5. *Plagiothecium curvifolium*. 79:** on stump, open mixed woodland, ca 143 m alt., near Lower Lake, Bowhill, NT42782731, 2010, DG Long 38985.
- 197.8. *Plagiothecium succulentum*. H11:** hedgebank in wooded valley, 200 m alt., Coolbawn, S569743, 2010, SDS Bosanquet & CD Preston.
- 197.9. *Plagiothecium nemorale*. H21:** earthy bank at entrance to badger sett, 60 m alt., Ardgillan Demesne, O2161, 2010, NG Hodgetts, J Denyer *et al.* 7750.
- 197.10. *Plagiothecium undulatum*. H22:** on north-facing side of ditch beside track, ca 80 m alt., Chamberlainstown, N708703, 2010, M Eakin.
- 200.2. *Herzogiella seligeri*. 37:** on rotten log in ash and beech woodland, 250 m alt., The Bank, near Broadway, SP103345, 2010, RV Lansdown.
- 202.1. *Platygyrium repens*. 20:** in crook of twisted horizontal oak branch, 200 m alt., Gryme's Dell, Ashridge NT Estate, SP9611, 2010, CTW Tipper; **24:** on large log by car park, ca 100 m alt., Little Linford Wood, SP834455, 2010, N Hueber; **38:** on fallen branch of blackthorn, 95 m alt., Ryton Wood, Princethorpe, SP38347249, 2010, NJ Law & TL Blockeel.
- 202.1.a. *Leucodon sciuroides* var. *sciuroides*. 20:** truncated ash branch, hedge, narrow lane, 140 m alt., south of Flaunden, TL017004, 2010, CTW Tipper; **38:** on upright sandstone tomb, 80–90 m alt., Leamington Hastings churchyard, near Rugby, SP444 677, 2010, AN Saunders; **38:** on churchyard wall, 90 m alt., Wolfhampcote, SP529653, 2010, RH Carter; **39:** on limestone at base of dry stone wall, 325 m alt., Throwley, 3 km WNW of Ilam, SK103 516, 2010, TL Blockeel; **56:** on tombstone, ca 15 m alt., Norwell churchyard, SK77596175, 2010, M Pool; **H11:** *Fraxinus* & *Salix* by river, 75 m alt., Dinin River, Ballyrafton Wood, S489635, 2010, SDS Bosanquet & CD Preston.
- 202.1.b. *Leucodon sciuroides* var. *morensis*. 88:** dry rock face, ca 700 m alt., Ben Chonzie, NN751315, 1976, DF Chamberlain & DG Long B352.
- 208.1. *Antitrichia curtipendula*. 34:** *Paulownia* trunk by Prairie Dog enclosure, Bristol Zoo, ST568739, 2010, SDS Bosanquet; **63:** on elder, by River Went, Brockadale Nature Reserve, Kirk Smeaton, SE508171, 2010, C Wall.
- 210.2. *Neckera crispa*. 109:** dry rock outcrop in small gorge, Resigill Burn, Lybster, ND2435, 1977, S Payne; **H11:** limestone outcrop in open woodland, 180 m alt., Tubbrid valley, S356615, 2010, SDS Bosanquet & CD Preston.
- 211.1. *Homalia trichomanoides*. 38:** on lump of concrete in woodland, 65 m alt., Pooley Country Park, Alvecote, SK25240429, 2010, NJ Law & TL Blockeel.
- 214.1.a. *Isothecium myosuroides* var. *myosuroides*. 56:** on trunk of oak in broad-leaved woodland, Eaton Wood, Eaton, SK725773, 2010, J Graham.
- 214.2. *Isothecium alopecuroides*. 38:** on tree root, 100 m alt., Ryton Wood, Princethorpe, SP38357259, 2010, NJ Law & TL Blockeel.

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