

The moss year – 2015

The volume of new records in 2015 has settled to the post-Atlas level seen in 2014. The figures for the two years are shown in Table 1 (note that the large number of deletions and bracketings for 2014 arose from cleansing of BBS data for the new Atlas). The figures for England in 2015 include the Channel Islands: it was pleasing to have several updated records from Jersey during the year. The total number of additions and amendments in 2015 was 278.

Additions to the British and Irish list

Remarkably, there are four mosses new to the British and Irish list this year. In spring 2013 Tom Ottley encountered an odd Pottiaceous moss in Rye Harbour which proved to be *Pterygoneurum papillosum* Oesau, a recently described species otherwise known only from Germany (Blockeel & Ottley, 2016). Subsequent research showed that it had been collected in the 1960s in Somerset and Oxfordshire, and that it still occurs in both counties. It has also been found in Dorset. It is a tiny moss occurring as a winter ephemeral, and it is likely that further populations will be found.

Two of the additions are *Orthotrichum* species,

reflecting the expansion of this genus in Britain in recent decades. Sam Bosanquet found a tuft of *O. rogeri* Brid. in Ashdown Forest, East Sussex (VC 14) during the BBS spring meeting in 2014 (Bosanquet, 2016). *O. rogeri* is one of the less common *Orthotrichum* species in continental Europe, so its occurrence in England is particularly interesting. Time will tell whether or not this is an isolated transitory occurrence, as with some other *Orthotrichum* species in recent years. The second new *Orthotrichum* is *O. alpestre* Hornsch. ex Bruch & Schimp. This is not a recent colonist, as it was found in herbarium material collected by Martin Corley at Tomintoul (VC 94) in 1983 (Blockeel & Lara, 2015). Its distribution in continental Europe has northern and montane tendencies, so its occurrence in NE Scotland is not entirely surprising.

Molecular studies on the genus *Hedwigia* have led to the reinstatement of *Hedwigia striata* as a distinct species (Buchbender *et al.*, 2014). It was well known to Victorian bryologists, though mostly treated as a variety of *H. ciliata*. The type locality is in Snowdonia, where it was collected by William Wilson in 1827. Buchbender *et al.* (2014) cite several other historic collections

	2015				2014			
	England	Wales	Scotland	Ireland	England	Wales	Scotland	Ireland
New entries	62	15	87	23	69	16	44	55
Debrackets*	30	4	27	9	29	2	18	20
Reinstated	1	–	1	1	–	–	–	–
Bracketings*	1	1	–	–	43	3	29	6
Deletions	4	2	9	1	48	6	36	13
Totals	98	22	124	34	189	27	127	94

Table 1. Analysis of Census Catalogue updates

(*Debrackets are existing vice-county entries for which a post-1960 record has been vouched. Bracketings are existing entries for which the post-1960 records are unconfirmed or erroneous but older record(s) are known or thought to be valid.)



△Fig. 1. *Grimmia elatior* at its newly recorded site of Loch Assynt, West Sutherland. G. Rothero

from Britain. It was re-found in Snowdonia during the summer meeting in 2015, and is now known from several other recent collections. Morphologically, it is closer to *H. ciliata* than to *H. stellata*, and like *H. ciliata* it is rare in Britain and Ireland. A full account of its occurrence can be found in this issue of *Field Bryology* (Blockeel & Bosanquet, 2016). As explained in that paper, the correct author citation for the name is *Hedwigia striata* (Wilson *ex* Hook.) John Whitehead & J. Fergusson *ex* Hobk. & Porritt.

The moss year 2015

Perhaps the most notable of the other records in 2015 was the discovery of a new site for *Grimmia elatior* in Scotland (Assynt, West Sutherland), a long way from its two other extant British sites on the other side of Scotland in East Sutherland (Fig. 1). The new specimen was collected in 1999 and was fished out from his herbarium recently by Gordon Rothero. A return visit to the site recently has shown that the population is extensive. There have been some other good *Grimmia* records. Tim Pyner has found *Grimmia lisae* on a culvert wall by the coast in North Essex, not a county that often produces bryological surprises. In the past *G. lisae* (under the name of *G. retracta*) was thought to have a mainly western distribution in Britain, but the new site in Essex and other recent ones in Cambridgeshire suggest that it may be overlooked in the east. The Essex

population has both capsules and gemmae; this is the first record of capsule-bearing plants in Britain. Also in southern England, there are new sites for *G. longirostris* on roof tiles in East Sussex and East Kent. The Sussex population originally masqueraded as *G. ovalis*, but Tom Ottley uncovered the error.

Another notable record in 2015 was the discovery of a population of *Fissidens polyphyllus* in the Quantock Hills, South Somerset, by Fred Rumsey. Although this species occurs plentifully at some of its known sites, its overall distribution is very restricted and even a modest extension of range is welcome. *Dicranella crispa* seems to have declined greatly in Britain, but Tom Ottley and Howard Wallis have updated its occurrence in Surrey with the discovery of fertile plants on a sandy bank in Pitch Hill Quarry. Tom Ottley's work in Sussex continues to produce good results. In East Sussex he has re-found *Bryum donianum* and *Weissia condensa*, as well as several uncommon but easily overlooked species: *Bryum creberrimum*, *B. torquescens* and *Tortula schimperi*. His rediscovery of *Seligeria recurvata* at Bepton Down has raised a taxonomic quandary. Bepton is the site for the Sussex record of *S. campylopoda*. Re-examination of the voucher of the latter has revealed that it is not typical (as compared with Wye Valley plants) and may be a form of *S. recurvata*. Elsewhere in southern England, it was gratifying, during surveys for *Pterygoneurum*

papillosum, to find a small extant population of *P. ovatum* at Gilling Down, North Somerset. In the new Atlas, there are only 25 post-1990 hectad records for *P. ovatum* in Britain. Mark Pool has refound *Hamatocaulis vernicosus* at its South Devon site, one of only two in SW England. Mark Lawley is to be commended for spotting *Ditrichum pusillum* in Worcestershire, in the small form that has been recorded in the past in arable fields. Mark's collection is from an anthill and has characteristic rhizoidal tubers.

Northern England produced few unexpected records. Michael Wilcox's *Atrichum tenellum* in South Lancashire complements several other recent records from the Pennines, and Des Callaghan found *Gymnostomum calcareum* on base-rich sandstone in Cheshire.

There has been the usual influx of interesting records of epiphytes, mainly in England. *Ulotrichum calvescens* has five new vice-counties, most notably in Northamptonshire. Howard Wallis had *Ulotrichum coarctatum* at Box Hill, Surrey, and Des Callaghan turned it up in Coed Ganllwyd, Merionethshire. There were fewer *Orthotrichum* than in previous years, but they included *O. speciosum* and *O. pallens* in East Sussex, and *O. pumilum* in West Suffolk and Peeblesshire. *Neckera pumila* continues its slow increase eastwards and northwards in England, with new records from Northamptonshire, NW Yorkshire and South Northumberland.

One of Wales' most exciting records in 2015 (apart from *Hedwigia striata*) was the discovery of *Pseudoleskeella rupestris* at Y Gribin (Caernarvonshire) during the BBS summer meeting, the first report for Wales. Subsequently, and perhaps not surprisingly, it turned out that Derek Ratcliffe's Snowdonia voucher of *P. catenulata* (Llech Ddu, Cwm Llafar) in 1952 was also *P. rupestris*. Apart from an old Cumbrian record, these are the only British localities south

of the Scottish Highlands. There were other good finds during the Welsh meeting: several people collected an *Oxystegus* that, after some deliberation, was agreed to be *O. hibernicus* (*Trichostomum hibernicum*) new to Wales. Sam Bosanquet re-discovered *Pterigynandrum filiforme*, on a lakeside boulder at Ffynnon Lloer, and Mark Lawley unearthed *Atrichum tenellum* at Llyn Eigiau. All these records are from Caernarvonshire. Good Welsh records were not limited to the summer meeting. Mark Lawley spotted a little *Ephemerum cohaerens* on a soil bank beside the River Camlad (Montgomery), growing with a very odd Pottiaceous moss, as yet unidentified (but see pp. 31-34 of this issue), and Malcolm Watling found the elusive *Amblystegium radicale* in willow carr near Criccieth (Caernarvonshire). This species must surely be overlooked elsewhere in Britain.

Highlights in Scotland, apart from *Grimmia elatior*, were *Dicranella grevilleana* and *Eurhynchiastrum pulchellum*, both at Craig Leek (South Aberdeenshire) by Des Callaghan, and *Plagiomnium medium* in Assynt by Gordon Rothero. Gordon also found a new population of the endemic *Pohlia scotica*, by the R Blackwater in West Ross. Survey work by Des Callaghan in Peeblesshire produced some good records of montane species for southern Scotland, notably *Kiaeria starkei*, *Arctoa fulvella* and *Amphidium lapponicum*. Two notable *Sphagnum* records are *S. strictum* by Nick Hodgetts near Braemar (South Aberdeenshire) at the eastern limit of its British range, and Gordon Rothero's *S. skyense* on Mull (Mid Ebudes), filling another gap in its distribution in the Hebrides. Also in the Hebrides, Sandy Payne has confirmed the presence of *Hamatocaulis vernicosus* on the Isle of Tiree; it had been collected there by Symers MacVicar in 1897, but the original specimen was so tightly glued to a herbarium sheet that

it was difficult to examine and confirm! Julie Smith found a new site for *Daltonia splachnoides* near Tarbet, Dunbartonshire (on rock); though not far from some of the other Scottish sites, it is significant in view of the general rarity of *Daltonia* in Scotland (and Britain).

There are fewer Irish records this year, and most of them are due to Rory Hodd. His best find is surely *Isopterygiopsis muelleriana* at only its third Irish locality, in West Galway. He has also found *Sphagnum skyense* in West Galway, and *Arctoa fulvella* on the Sheefry Hills, West Mayo. *Bryum riparium* has been little recorded in both Britain and Ireland since 1990. Rory has found it new to eastern Ireland in Glenmalur, Co Wicklow. In the south-east, Jeff and Joyce Bates logged *Daltonia splachnoides* in a rupestral habitat in the Comeragh mountains in Co Waterford.

There has been little bryological activity in the Channel Islands in recent years so it is good to see some new records in 2015. Most of them are debrackets of common species, but they include recent records of *Sphagnum palustre* and *S. subnitens*, two of three *Sphagnum* species that still occur on Jersey. It is hoped that a chance meeting between Tom Blockeel and Anne Haden on Jersey in 2015 will stimulate further records.

New vice-county records and amendments

Vouchers are deposited in the BBS herbarium (BBSUK) unless otherwise stated. Other herbarium abbreviations are **DBN** = National Botanic Garden, Glasnevin, Dublin; **E** = Royal Botanic Garden, Edinburgh; **NMW** = National Museum of Wales, Cardiff.

1.1. *Sphagnum austinii*. 103: blanket bog with *S. papillosum* and *S. magellanicum*, 30 m alt., flat area NW of Loch a'Chrotha, Coll, NM239594, 1999, A.G. Payne; **H32:** in wet blanket bog, Eshnaglogh, Slieve Beagh,



△Fig. 2. *Sphagnum austinii*, growing on wet blanket bog at Eshnaglogh, Co. Monaghan. R.L. Hodd

H538419, R.L. Hodd (DBN) (Fig. 2); **H36:** in wet blanket bog, Crocknalbanagh, Slieve Beagh, H539439, R.L. Hodd (DBN).

1.3. *Sphagnum papillosum*. 55: wet heath, Timberwood Hill, Charnwood Lodge NNR, SK473148, U. Hamzaoui.

1.4.a. *Sphagnum palustre* var. *palustre*. C: bog, Egypt, Jersey, WV660554, A. Haden.

1.4.b. *Sphagnum palustre* var. *centrale*. 55: wet heath, Timberwood Hill, Charnwood Lodge NR, SK473148, U. Hamzaoui, *det.* A. Hölzer, *conf.* M.O. Hill.

1.10. *Sphagnum russowii*. H6: in flush, 540 m alt., above Coumfea Lough, S27990983, R.L. Hodd (DBN).

1.11. *Sphagnum quinquefarium*. H36: on shaded bank in woodland, Altaveedan, Slieve Beagh, H493465, R.L. Hodd (DBN).

1.13.a. *Sphagnum capillifolium* subsp. *capillifolium*. 76: on damp slope, open moorland near stream, 220 m alt., Leap Moor, below Crawhin Reservoir, NS24007099, D.G. Long 43754 (E); **78:** amongst *Trichophorum*, open moorland slope, 465 m alt., foot of Molls Cleuch, Talla Water, NT15061958, D.G. Long 43755 (E); **H6:** on grassy slope, Below Lough Coumfea, S278103, R.L. Hodd (DBN); **H32:** in hummock on blanket bog, Eshnaglogh, Slieve Beagh, H538419, R.L. Hodd (DBN).

- 1.14. *Sphagnum fuscum*. H32:** in wet blanket bog, Eshnaglogh, Slieve Beagh, H537420, R.L. Hodd (DBN).
- 1.15.a. *Sphagnum subnitens* var. *subnitens*. C:** among *Molinia* in small patch of wet coastal heathland, between the Pinnacle and Gros Nez, Jersey, WV5456, A. Haden.
- 1.16. *Sphagnum skyense*. 103:** in heathy turf among rocks, 300 m alt., crags on N side of Beinn Chreagach, Gribun, Mull, NM46083489, G.P. Rothero 2015062; **H16:** on sheltered heathery bank, 410 m alt., North corrie of Benbrack, L7643656118, R.L. Hodd & N.D. Lockhart (DBN); **H16:** on flushed grassy/rocky slope, 490 m alt., N ridge of Muckanaght, L7679354386, R.L. Hodd (DBN).
- 1.18. *Sphagnum strictum*. 92:** amongst *Calluna* in heathland on east-facing hillside, 650 m alt., Carn nan Sgliat, Braemar, NO17119028, N.G. Hodgetts 9095.
- 1.19. *Sphagnum compactum*. 34:** sparsely on open heathland, The Park, ST5568599085, G. Powell.
- 1.20. *Sphagnum subsecundum*. 110:** edge of flush on moorland near shore, 20 m alt., Rinn nan Gruban, Arnol, Isle of Lewis, NB31134963, T. ap Rheinallt 110/15/78, *conf.* M.O. Hill.
- 1.22. *Sphagnum denticulatum*. H32:** in wet peaty flush, Barratitoppy Upper, Slieve Beagh, H551419, R.L. Hodd (DBN).
- 1.26. *Sphagnum cuspidatum*. H32:** on wet peaty ground, Barratitoppy Upper, Slieve Beagh, H551419, R.L. Hodd (DBN).
- 1.31. *Sphagnum flexuosum*. 39:** damp heathland, Rough Wood NR, Walsall, SJ9800, J. Clayfield, *conf.* M.O. Hill; **H20:** in rushy flush, 325 m alt., Head of Glendalough, T072962, R.L. Hodd (DBN).
- 1.32. *Sphagnum angustifolium*. 78:** on rocks by stream, 550 m alt., Talla Water, Talla & Gameshope Border Forest Trust Reserve, NT160177, E.M. Kungu, D.G. Long *et al.* (E); **78:** montane flush, 560 m alt., The Bottom, below Cramalt Craig, NT1781524908, D.A. Callaghan.
- 2.6.a. *Andreaea rothii* subsp. *rothii*. 76:** on small rock outcrop in open area among plantations, 200 m alt., Neilston Pad, NS475546, T.L. Blockeel 44/405.
- 2.8. *Andreaea megistospora*. 110:** acidic rock outcrop on moorland, 50 m alt., Mànaïs, South Harris, NG10708957, T. ap Rheinallt 110.15.41, *conf.* M.O. Hill.
- 4.2. *Atrichum tenellum*. 49:** damp soil, near edge of Llyn Eigiau, SH718645, M. Lawley; **59:** Watergrove Reservoir, SD9017, M. Wilcox, *det.* D.A. Callaghan; **104:** on moist soil of track in pasture, 25 m alt., near Laig, Isle of Eigg, NM468875, M. Pool.
- 4.3.b. *Atrichum undulatum* var. *gracilisetum*. 20 in ():** near Broxbourne, TL30, 1886, J.R. Vaizey (record reinstated: it is documented in detail by Vaizey (1888)).
- 5.1. *Oligotrichum hercynicum*. 76:** on vertical bank of small burn, near Muirshiel Country Park visitor centre, NS310630, M. Pool.
- 7.2. *Polytrichastrum longisetum*. 76:** peaty ground in clear-cut, Wraes Wood, near Kilmacolm, NS386689, M.O. Hill.
- 8.1.b. *Polytrichum commune* var. *perigoniale*. 76:** on thin soil over rocks, 270 m alt., Cample Burn, Muirshiel Country Park, NS3062, E.M. Kungu (E).
- 13.2. *Timmia norvegica*. 90 in ():** Corrie Dourie, Glen Effock, NO47, 1916, M. Corstorphine & R.H. Corstorphine, *det.* N.G. Hodgetts (STA: St Andrews University).
- 14.4. *Encalypta vulgaris*. 11:** on south-facing steep chalk cutting with *Weissia* spp., and *Fissidens dubius*, 86 m alt., Fort Widley,

- Portsmouth Hill, SU6515406503, 2014, J.A. Norton B1027.
- 16.5. *Entosthodon obtusus*. 6:** peaty edges of scrapes in acid flush, locally plentiful, 280 m alt., Lots Grassland Reserve, Charterhouse, ST47775660, S.L. Pilkington; **14:** edge of path, formerly heathland, 40m m alt., Lower Vert Wood, TQ516134, T.W. Ottley 15100101; **76:** flushed peaty bank, Cample Burn, Clyde Muirshiel R.P., NS3067162177, K. Watson.
- 21.2. *Schistidium rivulare*. H21:** on rock in river, Glenasmole, O09382232, R.L. Hoddd, G.F. Smith *et al.* (DBN).
- 21.5. *Schistidium apocarpum*. 5:** beside a stream, Worthy Combe, Porlock Weir, SS852477, A. Branson & S.L. Pilkington; **76:** on riverside rocks, Busby Glen, NS579566, M. Pool; **76:** on rocks at edge of river, Kip Water, Shielhill Glen, NS243721, E.M. Kungu (E).
- 21.8. *Schistidium pruinsum*. 76:** on base-rich rock near bank of stream, 225 m alt., Munzie Burn, south of Eaglesham, NS58434856, T.L. Blockeel 44/411.
- 21.16. *Schistidium crassipilum*. C:** on concrete wall capping, 50 m alt., roadside, La Rue de Haut, south of St Aubin, WV603476, T.L. Blockeel 44/429.
- 21.17. *Schistidium elegantulum*. 58:** top of insulated concrete block beside canal bridge, 10 m alt., Caughall Bridge, Shropshire Union Canal, SJ4133171089, D.A. Callaghan; **72:** on wall under *Acer*, margin of pasture, 215 m alt., Corehead Farm, Annandale, NT07301250, 2014, D.G. Long & E.M. Kungu 42882 (E); **76:** on concrete wall top on roadside, 40 m alt., Garpel Burn, Lochwinnoch, NS34715898, T.L. Blockeel 44/406.
- 22.11. *Grimmia longirostris*. 14:** on roof of outbuilding, 95 m alt., Burgess Engineering, Cross-in-hand, TQ562198, 2013, T.W. Ottley & T.G.J. Rayner 13040801, published in error as *G. ovalis* in *The Moss Year 2013*; **15:** clay roof tile, National Trust property, Sissinghurst, TQ8077838393, P. Martin.
- 22.12. *Grimmia ovalis*. delete 14:** the voucher is *G. longirostris* (see that species for details).
- 22.17. *Grimmia orbicularis*. 8:** on old concrete wall/steps of range targets, 115 m alt., Salisbury Plain, Bulford Rifle Range E, SU2110346097, S.L. Pilkington.
- 22.21. *Grimmia lisae*. 18:** concrete culvert wall, south-facing, 20 m alt., Westcliff-on-Sea, Prittle Brook, TQ865870, T. Pyner, *conf.* R.D. Porley.
- 22.22. *Grimmia dissimulata*. 14:** on capstone of sarcophagus, 90 m alt., Cuckfield Church, TQ30372447, T.W. Ottley 15072301.
- 22.25. *Grimmia decipiens*. 108:** on basic gneiss boulder on loch margin, 40 m alt., Loch na Creige Leithe, SE of Clachtoll, Assynt, NC056262, 1998, G.P. Rothero 98004.
- 22.26. *Grimmia elatior*. 108:** on south-facing gneiss slabs on loch margin, 65 m alt., margin of Loch Assynt just east of the in-flow from Loch Leitir Easaidh, NC176264, 1999, G.P. Rothero 99258 (Fig. 1).
- 23.5. *Racomitrium macounii*. 107:** on flushed rocks below broken gneiss crag, 740 m alt., Coire a'Mhadaidh, Conival, NC302208, 2012, G.P. Rothero 2012128.
- 23.7. *Racomitrium affine*. 78:** montane rocky outcrop, Posso Craig, NT1979732129, D.A. Callaghan.
- 23.11. *Racomitrium ericoides*. 78:** disturbed ground amongst acidic upland grassland, 305 m alt., below Logan Craig, NT1348832994, D.A. Callaghan.
- 23.12. *Racomitrium elongatum*. 76:** side of forestry track, 300 m alt., near Carrot, south of Eaglesham, NS580476, M. Pool.
- 27.1. *Brachydontium trichodes*. 78:** on small

flat stones in loose scree, small moorland valley, 670 m alt., Tates Grain, upper Talla Water, NT15611784, D.G. Long 44094 (E).

28.5. *Seligeria campylopoda*. delete 13: the voucher (Bepton Down SU81, Crundwell & Wallace, 1951) is intermediate with *S. recurvata* and probably belongs to that species.

28.6. *Seligeria recurvata*. 13: on flint in woodland on steep north-facing slope, 140 m alt., Bepton Down, SU85131741, T.W. Ottley 15040701; **H6:** on flushed rock face, 655 m alt., Coum Iarthar, S3132412154, R.L. Hoddd (DBN) (Fig. 7).

30.1. *Fissidens viridulus*. H20: on soil bank near river, 100 m alt., Knocksink Wood, O21831777, R.L. Hoddd, A. Fitzgerald & S. Brien (DBN); **H21:** on soil bank by dam, Glenasmole, O089231, R.L. Hoddd, G.F. Smith *et al.* (DBN).

30.2. *Fissidens crispus*. 52: on soil in coastal scrub on steep south-facing soft cliff, near the Mermaid Inn, SW of Brynisiencyn, SH471642, T.H. Blackstock; **75:** on soil, Dunure, NS2513015712, R. Whytock.

30.5. *Fissidens incurvus*. 67: on soil near footpath descending into dene, north of stream, opposite golf club entrance, Brierdene, Whitley Bay, NZ344738, S.V. O'Leary.

30.15.b. *Fissidens taxifolius* var. *pallidicaulis*. 41: on irrigated ground by small stream, 280 m alt., Pentrebach, Mynydd Gethin, SO059022, S.L. Pilkington.

30.19. *Fissidens polyphyllus*. 5: one ca 25 x 10 cm patch, partially submerged in streambed, shaded by trees in coombe, below (west of) Black Hill, near Crowcombe Gate, ST145391, F.J. Rumsey.

30.20. *Fissidens fontanus*. 24: attached to submerged stones (ca 10cm depth) in moderately fast, clear water of R. Tove, near road bridge, east side of river, SP7919643884,



S.V. O'Leary.

31.2. *Pleuroidium subulatum*. 88: forestry track, 210 m alt., Tullochroisk, McGregor's Cave area, NN7158, N.G. Hodgetts *et al.* 9063; **104:** sheltered, heavy soil in garden, 35 m alt., The Lodge, Isle of Eigg, NM479841, M. Pool.

34.1. *Ditrichum pusillum*. 37: bare soil on anthill in pasture, Birchfield, Rochford, near Tenbury Wells, SO644668, M. Lawley.

41.1. *Amphidium lapponicum*. 78: base-rich montane crag, 440 m alt., Bitch Cleuch, NT2001726542, D.A. Callaghan.

43.3. *Cynodontium jenneri*. 76: crevice in boulder on north-facing hillside, 130 m alt., Burneven Hill, near Greenock, NS22237567, N.G. Hodgetts 9047; **86:** Fin Glen, Campsie Fells, NS59698068, R. Whytock.

47.1. *Arctoa fulvella*. 78: montane crag, 770 m alt., Polmood Craig, NT1511124223, D.A. Callaghan; **H27:** on steep rocky slope, North side of Sheefry Hills, L858692, R.L. Hoddd, conf. G.P. Rothero (DBN).

48.3. *Kiaeria starkei*. 78: rocky crag, 470 m alt., Bitch Cleuch, NT2005526393, D.A. Callaghan, *det.* G.P. Rothero.

52.2. *Dicranella grevilleana*. 92: edge of calcareous flush in moorland, Craig Leek, NO1893, D.A. Callaghan 1893.

52.3. *Dicranella crispa*. 17: on steep sandy bank, 250 m alt., Pitch Hill Quarry, TQ08034259, T.W. Ottley & H.W. Wallis 15031004.



△Fig. 3. Bohernabreena Reservoir, Glenasmole, the location of several new vice-county records and updates for Co. Dublin. R.L. Hodd

- 53.1. *Dicranum polysetum*. 106:** tree stump, Gorge of River Conon, Achilty, NH45, 1962, N.M. Pritchard 1237 (E).
- 53.8. *Dicranum fuscescens*. 58:** sandstone boulder on north-facing slope in oak woodland, 190 m alt., Stanner Nab, SJ5316957523, D.A. Callaghan.
- 53.13. *Dicranum montanum*. 56:** one tuft on bole of birch tree, 40 m alt., Clumber Park, SK634754, T.L. Blockeel *et al.* 44/761.
- 55.3. *Dicranodontium denudatum*. 76:** on decayed log in planted woodland below crag, 240 m alt., Neilston Pad, NS47685503, T.L. Blockeel 44/404.
- 57.2. *Leucobryum juniperoideum*. 28:** woodland floor, 82 m alt., Swanton Novers Great Wood N.N.R., TG0150831480, C.R. Stevenson & J. Masson; **C:** on bank under holly by woodland path, 30 m alt., Bouley Bay, Jersey, WV669544, T.L. Blockeel 44/426.
- 60.1.b. *Weissia controversa* var. *crispata*. 13:** chalk grassland on SE-facing slope, 100 m alt., Rackham Hill, TQ047116, T.W. Ottley & S. Rubinstein 15021202.
- 60.4. *Weissia condensa*. 14:** on south-facing slope, 105 m alt., Ranscombe Hill Fort, Mount Caburn, TQ438090, T.W. Ottley 15011102.
- 60.9. *Weissia multicapsularis*. 17 in (): near Haslemere, SU93, 1919, C.P. Hurst, *det.* D.A. Callaghan (NMW). Gardiner (1981) reports duplicates of Hurst's collection in the herbaria at CGE and Göteborg, identified as *W. mittenii* by A.C. Crundwell. Both species may have occurred at this locality.**
- 61.1. *Tortella tortuosa*. 76:** on rocks, 205 m alt., Gimlet Burn, near Crawhin Reservoir, NS2470, N.G. Hodgetts 9051; **H21:** on reservoir wall, Upper Bohernabreena reservoir, Glenasmole, O09462208, R.L. Hodd (DBN) (Fig. 3).
- 61.2. *Tortella bambergeri*. 76:** on base-rich rock near bank of stream, 225 m alt., Munzie Burn, south of Eaglesham, NS58434856, T.L. Blockeel & E.M. Kungu 44/410.
- 62.1. *Trichostomum brachydontium*. 58:** sheltered sandstone outcrop, 200 m alt., Bickerton Hill, SJ4997253129, D.A. Callaghan.
- 62.3.b. *Trichostomum tenuirostre* var. *holtii* (*Oxystegus tenuirostris* var. *holtii*). 72:** on rocks by stream, 310 m alt., Black Hope, Upper Coomb Sike, NT1314912063, E.M. Kungu *et al.* (E); **78:** on rocks by stream, 620 m alt., Tates Grain, Talla Water, Talla & Gameshope Border Forest Trust Reserve, NT1578117975, E.M. Kungu, D.G. Long *et al.* (E).
- 62.3A. *Oxystegus daldinianus*. 108:** on wet mossy rock ledge, narrow humid ravine, 200 m alt., Allt Chranaidh ravine below Loch na Gainmhich, NC24272936, D.G. Long 43948 (E); **110:** damp crevice in wet rock face, 187 m alt., Loch na Clibhe, near Brenish, Uig, Lewis, NB01052443, 2014, T. ap Rheinnallt.
- 62.4. *Trichostomum hibernicum* (*Oxystegus hibernicus*). 49:** damp crag, Cwn Cywion, SH6360, M. Lawley; **49:** on flushed soil on ledge of north-facing crag, 570 m alt., Cwmglas Bach, N side of Carnedd Dafydd, SH663637, G.P. Rothero 2015063; **89:** on gravel on ledge of calcareous crag in ravine, 280 m alt., Allt

- Anndeir, Dalnamein, NN75447065, G.P. Rothero & S. Yardy 2015097.
- 64.1. *Pleurochaete squarrosa*. 8:** in rich chalk grassland on bank of flinty military track in valley bottom, 165 m alt., Salisbury Plain, Haxton Down, SU2112050282, S.L. Pilkington; **44:** abundant over 40 x 5 m of gravelly dune turf, 5 m alt., Pendine Burrows east, SN32410779, S.D.S. Bosanquet.
- 66.1. *Anoetangium aestivum*. 78:** on flushed rock slab in gully, steep rocky hillside, 375 m alt., north slope of Garelet Hill below summit, Talla, NT12442062, D.G. Long 44062 (E).
- 68.2. *Gymnostomum calcareum*. 58:** mouth of cave in sandstone outcrop in woodland, 180 m alt., Bickerton Hill, SJ5031053561, D.A. Callaghan.
- 72.4. *Ephemerum cohaerens*. 47:** soil bank beside River Camlad, SW of Forden, SO214999, M. Lawley, only two shoots noted among other mosses.
- 72.6. *Ephemerum serratum*. 19:** mixed woodland, bare patches, SW side of track with *Solenostoma gracillimum* and *Fossombronina wondraczekii*, 25 m alt., Weeleyhall Wood, TM1570421099, W. Chisholm & Colchester NHS Bryology Group, det. K.J. Adams; **88:** on soil by lake, S shore of L. Tay, NN625348, 2014, R.L. Hodd, D.G. Long & R.D. Porley.
- 74.1. *Dialytrichia mucronata*. 28:** epiphytic on inclined oak, at about 1.2 m above ground level, 22 m alt., near Feltwell landfill site, TL7380292019, C.R. Stevenson; **47:** on a stone, bank of River Camlad, SW of Forden, SO213997, M. Lawley.
- 79.1. *Didymodon acutus* agg. (incl. *D. icmadophilus*). 11:** chalky soil, Fort Widley, Portsdown Hill, SU6517906479, J.A. Norton B1025A; **31:** bare ground in recently revegetated quarry yard in gravel pits, Paxton Pits, TL19856291, M.O. Hill.
- 79.4. *Didymodon nicholsonii*. 55:** on old tarmac in driveway, Netherseal, SK290128, T.L. Blockeel & N.J. Law 44/759; **76:** on old tarmac, 60 m alt., by White Cart Water below Busby Bridge, Busby, NS579566, M. Pool; **77:** on sheltered pavement, 75 m alt., Cartside Drive, Busby, NS580566, M. Pool.
- 79.9. *Didymodon luridus*. C:** on concrete of old gun battery, 60 m alt., Noirmont, Jersey, WV607467, T.L. Blockeel 44/428.
- 79.11. *Didymodon sinuosus*. 58:** on boulder (?derelict rockery), Bruntwood Park, SJ85868715, J. Lowell & D. Wallace; **C:** on concrete wall capping of bridge in woodland, 40 m alt., St Catherine's Woods, Jersey, WV699529, T.L. Blockeel 44/430.
- 79.13. *Didymodon spadiceus*. 96:** wet rocks, west side of Moniak Burn just south of junction with Allt a'Choilich, Moniak Gorge, Reelig, NH55854195, 2014, A.G. Payne.
- 79.16. *Didymodon ferrugineus*. 58:** thin rabbit-grazed turf beside track over old lime waste, 20 m alt., Frodsham limebed, SJ5294979139, D.A. Callaghan; **H36:** on forestry track, Altaveedan, Slieve Beagh, H493466, R.L. Hodd (DBN).
- 81.1. *Pterygoneurum ovatum*. delete 5:** the voucher (Red Hill, near Curry Rivel, ST32, J. Appleyard, 1965, BBSUK & NMW) is *P. papillosum*; **6:** sparsely on calcareous soil on stepped hillside, on Lias, 80 m alt., Gilling Down, Polden Hills, near Hurcot, ST4967832219, T.L. Blockeel, S.L. Pilkington & T.W. Ottley 44/014.
- 81.3. *Pterygoneurum papillosum*. 5, 6, 9, 14, 23:** new to Britain (Blockeel & Ottley, 2016).
- 83.2. *Tortula schimperi*. 13:** under tree roots of oak by pond, 15 m alt., Knepp Castle Estate, TQ15822225, T.W. Ottley & S. Rubinstein 15031101.
- 83.6. *Tortula marginata*. 72:** on damp

- shaded walls of abandoned piggery, 8 m alt., Caerlaverock WWT reserve, Eastpark Farm, NY05116565, E.M. Kungu (E).
- 83.19. *Tortula protobryoides*. 50:** in skeletal limestone grassland, 320 m alt., Eryrys, Fron Heulog, SJ19675787, 2015, S.L. Pilkington.
- 84.1.d. *Phascum cuspidatum* var. *papillosum*. 27:** bare soil, 70 m alt., Kelling Heath Holiday Park, TG1041, M. Ghullam.
- 86.3. *Hennediella heimii*. 72:** on damp sandy bank above Lochar water, set back from high water's edge, 10 m alt., Caerlaverock WWT reserve, summer walk, S bank of Lochar Water, NY0548966176, E.M. Kungu (E).
- 87.1. *Acaulon muticum*. 5:** bare soil on top of drystone wall behind beach, 0 m alt., Porlock Weir, SS86074835, A. Branson & S.L. Pilkington; **14:** on clay bank at edge of path, 50 m alt., Scotney Castle, TQ68593518, T.W. Ottley 15102502; **50:** on exposed soil in gully on hillside, 280 m alt., Castell Dinas Bran, Llangollen, SJ22154304, S.L. Pilkington.
- 89.1.b. *Syntrichia ruralis* var. *ruraliformis*. 57:** on old tarmac of disused lane, 60 m alt., Etwall, SK26533219, T.L. Blockeel & N.J. Law 44/758.
- 89.5. *Syntrichia virescens*. 16:** on cast iron gully grating, 125 m alt., High Woods Lane, Hawkenbury, TQ60013883, T.W. Ottley 15082401; **67:** on elder by footpath descending into dene, north of stream, opposite golf club entrance, Brierdene, Whitley Bay, NZ344738, S.V. O'Leary.
- 89.6. *Syntrichia laevipila*. 76:** on trunk of pollarded tree in park, 170 m alt., Eaglesham, NS572520, T.L. Blockeel 44/415.
- 89.7. *Syntrichia papillosa*. 42:** on elder by lane in village, Llangynidr, SO147198, 2014, G.S. Motley; **62:** on ash tree, 220 m alt., by car park below the White Horse, Kilburn, SE514811, T.L. Blockeel 44/740; **65:** on *Salix* by stream in village, 120 m alt., Settlebeck Bridge, Sedbergh, SD66319211, R. Guppy & Yorkshire Naturalists.
- 90.1. *Cinclidotus fontinaloides*. 76:** rocks by fall, White Cart Water, Busby Glen, NS579566, K. Watson; **H21:** on rocks at reservoir margin, Bohernabreena reservoir, Glenasmole, O09042288, R.L. Hoddd, G.F. Smith *et al.* (DBN) (Fig. 3).
- 94.2. *Splachnum ampullaceum*. 93:** Clashindarroch Forest, Huntly, NJ4446 735626, R. Whytock.
- 98.1. *Leptobryum pyriforme*. 72:** on damp, sandy bank of ditch cut 13 months ago, 8 m alt., Caerlaverock WWT reserve, Peter Scott Observatory, ditch to the east, NY0525665716, E.M. Kungu (E).
- 99.1.b. *Zygodon viridissimus* var. *stirtonii*. 24:** on stonework of disused lock, disused branch of Grand Union Canal at Hydellane, SP728354, S.V. O'Leary; **76:** on vertical basalt(?) crag, 60 m alt., valley of White Cart Water below Busby Bridge, Busby, NS579567, M. Pool.
- 100.1. *Orthotrichum lyellii*. 76:** on ash at edge of river, Shielhill Glen, Kip Water, Muirshiel Country Park, NS24617199, E.M. Kungu *et al.* (E); **76:** epiphytic on ash by river, 130 m alt., Matheronock Bridge, Gryfe Water, NS32397084, N.G. Hodgetts 9061.
- 100.2. *Orthotrichum striatum*. 76:** on sallow at edge of wooded ravine, 160 m alt., Devol Glen, above Port Glasgow, NS30887399, T.L. Blockeel 44/398.
- 100.4. *Orthotrichum speciosum*. 14:** on willow near ride, 140 m alt., Browns Brook, Ashdown Forest, TQ46942798, T.W. Ottley 15042001.
- 100.10. *Orthotrichum cupulatum*. H36:** on concrete weir, Alderwood, Slieve Beagh, H503454, R.L. Hoddd (DBN).
- 100.12. *Orthotrichum sprucei*. 41:** flood



△Fig. 4. *Orthotrichum pallens* in East Sussex. T.W. Ottley

- zone, *Alnus glutinosa*, River Ely, St Fagans, ST121770, 2014, G.M. Tordoff.
- 100.13. *Orthotrichum stramineum*. 31:** several tufts on ash trunk, 42 m alt., Ash Wood, Perry Woods SSSI, TL138663, C.D. Preston.
- 100.13A. *Orthotrichum alpestre*. 94:** on wych-elm by river, Water of Ailnack, Tomintoul, NJ11, 1983, M.F.V. Corley, new to Britain (Blockeel & Lara, 2015).
- 100.14. *Orthotrichum tenellum*. 76:** on bark of sycamore, near Braemount, Paisley, NS467606, M.O. Hill.
- 100.15. *Orthotrichum pallens*. 14:** on sloping branch of hazel in open hedge, 35 m alt., Little Streele, Framfield, TQ50712154, T.W. Ottley 15051901 & 15071201 (Fig. 4).
- 100.16. *Orthotrichum pumilum*. 26:** branch of oak tree, Lakenheath Warren, TL792799, R.J. Fisk; **78:** on *Acer*, Dawyck Botanic Garden, NT1735, E.M. Kungu (E).
- 100.16A. *Orthotrichum rogeri*. 14:** young *Quercus* branch over path, Poundgate, Ashdown Forest, TQ483285, 2014, S.D.S. Bosanquet, det. F. Lara, new to Britain (Bosanquet, 2016).
- 101.1. *Ulota coarctata*. 17:** on oak trunk by path, 150 m alt., Lodge Hill, Box Hill, TQ180522, H.W. Wallis; **48:** on willow in oak/birch woodland, 160 m alt., Coed Ganllwyd, SH7192824551, D.A. Callaghan (Fig. 5).
- 101.2. *Ulota drummondii*. 76:** on willow in scrub woodland, 135 m alt., east of Kellybank Cottage, Wemyss Bay, NS210684, M. Pool.
- 101.5. *Ulota calvescens*. 32:** one tuft on *Salix* by lake, Stanford Reservoir south, SP61148106, S.D.S. Bosanquet; **40:** *Salix* branch beside stream, west of Pole Bank, The Long Mynd, SO40519431, D.A. Callaghan; **65:** on hazel on bank above stream, 190 m alt., Settlebeck Gill, Sedbergh, SD66109267, T.L. Blockeel & Yorkshire Naturalists 44/420; **69:** young *Acer* in car park, ASDA superstore, Kendal, SD52289073, S.D.S. Bosanquet; **76:** on ash tree by wooded burn, 150 m alt., Harelaw Burn, between Paisley and Barrhead, NS48835996, T.L. Blockeel 44/402.
- 102.1.a. *Hedwigia ciliata* var. *ciliata*: place 48 in (); delete 49, 69, 72, 73, 88, 98, 104, 105, 108, H6 (see Blockeel & Bosanquet, 2016).**
- 102.1.b. *Hedwigia ciliata* var. *leucophaea*: delete 73, 108 (see Blockeel & Bosanquet, 2016).**
- 102.1A. *Hedwigia striata*: 48, 49, 69, 73 in (), 87 in (), 97, 98 in (), 105, 108, H6, reinstated as a distinct species (see Blockeel & Bosanquet, 2016).**
- 102.2. *Hedwigia stellata*. 57:** one tuft on top of dry gritstone wall, 290 m alt., below Eccles Pike, south of Chinley, SK03918159, T.L.



△Fig. 5. The distinctive capsule of *Ulotia coarctata*, from Merionethshire. D.A. Callaghan

Blockeel 44/711.

- 107.3. *Philonotis arnellii*. 81:** on dripping rock face, coastal cliffs and sea banks, 50 m alt., Tod's Loop, Lamberton, NT97545792, D.G. Long 43577 (E).
- 107.5. *Philonotis fontana*. 14:** very scarce, growing through *Calliergonella cuspidata*, 85 m alt., Newbridge Bog, Ashdown Forest, TQ457324, T.W. Ottley & S. Rubinstein 15102001.
- 107.8. *Philonotis calcarea*. 32:** on clay at edge of former mire, growing with *Carex distans*, 140 m alt., Watford Mire, SP599709, A. Balbi.
- 110.1. *Anomobryum julaceum*. 76:** wet ground on mine track, 310 m alt., Queenside Muir barytes mine, NS284650, N.G. Hodgetts 9055.
- 110.2. *Anomobryum concinnum*. 76:** in crevice of boulder, moorland stream, 220 m alt., Leap Moor, below Crawthin Reservoir, NS24007097, D.G. Long 43753 (E).
- 111.16. *Bryum donianum*. 14:** roadside bank, 50 m alt., Forewood Lane, TQ755127, T.W. Ottley 15031301.
- 111.20. *Bryum torquescens*. 14:** on side of anthill, 125 m alt., Blackcap, track up from NE, TQ376128, T.W. Ottley 15030303.
- 111.22. *Bryum creberrimum*. 14:** on gravel in middle of track, 100 m alt., Waste Wood, Hadlow Down, TQ52202333, T.W. Ottley 15083101, conf. D.T. Holyoak.
- 111.23. *Bryum pallidum*. 17:** on soil under galvanised MoD fence, ca 55 m alt., margin of Folly Bog, by footpath, near Lightwater, SU92316110, H.W. Wallis; **78:** on roadside stones, by Manorhead Farm, ca 9 miles SSW of Peebles, NT1927, 1971, A.C. Crundwell (E), as *B. caespiticium*.
- 111.24. *Bryum pseudotriquetrum* s.lat. H19:** reinstate the entry, which was deleted in error in The Moss Year 2014.
- 111.25. *Bryum caespiticium*. 72 in ():** Brownhall, Dumfries, NX97, 1841, J. Cruickshank (E); **77:** retaining wall, by R Kelvin, below Queen Margaret Bridge, Glasgow, NS56T, 1987, A.C. Crundwell (E); **80:** on wall by road, 80 m alt., Jedburgh Abbey, NT6520, 1977, D.G. Long 6025 (E); **83:** on bridge parapet, 155 m alt., Milton Bridge, near Penicuik, NT252625, 1977, D.G. Long (E); **83:** top of boundary wall, on sandstone, 16 North Park Terrace, Edinburgh, NT2407574876, D.F. Chamberlain (E); **85 in ():** on cinder, rocky ground, 3 yds SE of concrete block, W of Low Trap, Island of May, NT6599, 1956, E.V. Watson (E); **92:** about the ruins of Slugain Lodge, Glann an t-Slugain, Braemar, NO1195, 1964, A.C. Crundwell (E); **99 in ():** crevice in basalt rocks, Dumbarton Rock, NS37, 1952, A.C. Crundwell (E).
- 111.29. *Bryum gemmiferum*. 42:** pure patches on eroding bank of river, banks of R Usk, near Brecon town, SO04542796, G.S. Motley; **72:** on sandstone boulder, open limestone river bank, 110 m alt., opposite Rashiel, Tarras Water, NY39428367, D.G. Long, E.M.



△Fig. 6. Fraughan Rock Glen, Glenmalur, Co. Wicklow, locality of *Bryum riparium*. R.L. Hodd

- Kungu & N. Bell 44075 (E).
- 111.33. *Bryum radiculosum*. 76:** on mortar of wall in village, 30 m alt., Church Street, Lochwinnoch, NS353587, T.L. Blockeel 44/403.
- 111.36. *Bryum klinggraeffii*. 72:** on damp sandy bank above Lochar water, set back from high water's edge, 10 m alt., Caerlaverock WWT reserve, summer walk, S bank of Lochar Water, NY0548966176, E.M. Kungu (E).
- 111.37. *Bryum sauteri*. 13:** on ruts in damp sandy track, 95 m alt., Bognor Common, TQ01042118, J.M. Hutson, T.W. Ottley & S. Rubinstein 15091001.
- 111.41. *Bryum bornholmense*. 56:** on acid humus by track in woodland, Clumber Park, SK63237528, M. Crittenden, S. Heathcote, S. Peacock *et al.*, conf. D.T. Holyoak.
- 111.43. *Bryum riparium*. H20:** between rocks at edge of river, 320 m alt., Fraughan Rock Glen, Glenmalur, T05059352, R.L. Hodd (DBN) (Fig. 6).
- 112.1. *Rhodobryum roseum*. 107:** under aspen on wooded roadside verge, among *Dicranum scoparium*, 50 m alt., Spinningdale, Kyloag, NH66419092, 2010, D.R. Genney 1715135.
- 114.1.a. *Poblia elongata* var. *elongata*. 76:** rock crevices by burn, 270 m alt., Raith Burn, Muirshiel Country Park, NS30666306, N.G. Hodgetts 9054.
- 114.7. *Poblia scotica*. 105:** in fine gravel in crevices on slabs, 120 m alt., on the west side, River Blackwater, Attadale estate, NG99963675, 2011, G.P. Rothero 2011170.
- 114.17. *Poblia lescuriana*. 80:** unploughed field margin, 95 m alt., Leader Water, west of river, NT577366, E.M. Kungu (E).
- 116.5.a. *Mnium marginatum* var. *marginatum*. H20:** on base-enriched rock face by river, Knocksink Wood, O21831777, R.L. Hodd, A. Fitzgerald & S. Brien (DBN).
- 118.3. *Rhizomnium pseudopunctatum*. 76:** fen, Walls Hill, to east side, NS413586, N.G. Hodgetts.
- 119.3. *Plagiomnium medium*. 108:** in grassy flush on steep, north-facing slope, 665 m alt., steep slope above Loch a'Choire Dheirg, Assynt, NC25442691, G.P. Rothero 2015092.
- 119.5. *Plagiomnium ellipticum*. 29:** abundant on swampy ground, Upware North Pit SSSI, TL544728, M.O. Hill & C.D. Preston, replaces previous post-1960 records from Wicken Fen, which are unreliable, comm. M.O. Hill; **78:** in flush, steep grassy hillside, 675 m alt., slopes north of Talla Craigs, Talla Warer, Talla Water, NT15421859, D.G. Long 43758 (E).
- 127.1. *Daltonia splachnoides*. 99:** vertical face of large boulder by burn, An-t-Sreang burn, Arrochar, Tarbet, NN2949503311, 2014, J.E. Smith; **H6:** small patch at base of periodically flushed mountain cliff (Old Red Sandstone) well above and on north side of corrie lough, 434 m alt., Coomshingaun, Comeragh Mountains, S3269510682, 2014, J.W. Bates & J.M. Bates 4725.
- 130.1.b. *Fontinalis antipyretica* var. *gracilis*. 76:** irrigated rocks in stream gully, Raith Burn, Muirshiel Country Park, NS301631, M.O. Hill.
- 130.2.a. *Fontinalis squamosa* var. *squamosa*. 78:** on wet rocks in stream, moorland valley, 310 m alt., west bank of lower Gameshope

- Valley, NT13231994, D.G. Long 44050 (E).
- 131.1. *Climacium dendroides*. 76:** ground at edge of cut, Greenock Cut, Shielhill Glen, Muirshiel Country Park, NS24487196, E.M. Kungu *et al.* (E); **76:** reservoir margin, Overton, SW of Greenock, NS262743, M.O. Hill.
- 132.2. *Palustriella falcata*. 76:** base-rich mire, 120 m alt., Burneven Hill, near Greenock, NS2275, N.G. Hodgetts 9048.
- 134.2. *Campylium protensum*. 78:** base-rich flush, 695 m alt., Polmood Craig, NT1506524413, D.A. Callaghan; **92:** on larch twig amongst limestone rocks in north-facing crags, 390 m alt., Lion's Face, Braemar, NO19Q, N.G. Hodgetts 9091.
- 135.1. *Campyliadelphus chrysophyllus*. H21:** grassy bank near lake, Glenasmole, O09072202, R.L. Hodd, G.F. Smith *et al.* (DBN).
- 135.2. *Campyliadelphus elodes*. 96:** rocks in non-calcareous bog, Loch na Ba Ruaidhe, near Milton, NH43W, 1965, N.M. Pritchard (E).
- 136.2. *Amblystegium radicale*. 49:** willow carr, Llyn Ystumlllyn, near Criccieth, SH53123937, M.C. Watling, conf. S.D.S. Bosanquet.
- 137.1. *Hygroamblystegium fluvatile*. 79:** on silty rock in river, wooded river valley, 140 m alt., Harewood Glen, Yarrow Water, NT43002851, D.G. Long 43732 (E).
- 138.1. *Leptodictyum riparium*. 86:** reinstate the entry, which was, deleted in error in *The Moss Year 2014*. There is a recent record from West Mains Pond, NS905814, *leg.* K.J. Watson, 1997.
- 140.1. *Drepanocladus polygamus*. 62:** 'slack' derived from upper saltmarsh, Redcar dunes, NZ57592554, S. Hedley.
- 142.1. *Sanionia uncinata*: place 14 in (),** the recent voucher (Darwell Wood TQ708204, *leg.* T.W. Otleby, 2012) is *Palustriella commutata*; **32:** fruiting patch on steel bridge hand-rail (with eroded plastic paint) over small ditch in wet flood plain woodland, 80 m alt., River Ise, near Barford Bridge, east of Rushton, SP8577983027, J. Graham.
- 143.5. *Hygrohypnum eugyrium*. 76:** on rocks near edge of river, 170 m alt., Devol Burn, above waterfall, NS30897399, E.M. Kungu (E).
- 147.1. *Straminergon stramineum*. H31:** in old recolonised cut-away bog, 40 m alt., Redbog, H903035, M. Eakin.
- 148.1. *Hamatocaulis vernicosus*. 3:** in open flush with sparse cover of *Hypericum elodes* and stunted *Menyanthes*, 360 m alt., Ilsington, Emsworthy Nature Reserve, SX744765, M. Pool; **103:** base-enriched mire, on NE side of old vehicle track, Cnu Lochanan, NW of Loch Riaghain, Gott, Isle of Tiree, NM0271047836, A.G. Payne.
- 149.1. *Scorpidium revolvens*. 76:** flush by burn, 245 m alt., Raith Burn, Muirshiel Country Park, NS30666306, N.G. Hodgetts 9053.
- 151.1. *Leskea polycarpa*. 76:** base of tallows in wet ground near loch, 30 m alt., Lochwinnoch, NS356588, T.L. Blockeel 44/400; **H21:** rocks by lower reservoir, Bohernabreena reservoir, Glenasmole, O089231, R.L. Hodd, G.F. Smith *et al.* (DBN) (Fig. 3).
- 152.1. *Pseudoleskeella catenulata*. delete 49:** the voucher (Llech Ddu, Cwm Llafar, SH6663, *leg.* Ratcliffe, 1952, E) is *P. rupestris*.
- 152.2. *Pseudoleskeella rupestris*. 49:** in sheltered crevice on calcareous cliff, 750 m alt., Y Gribin, Snowdonia, SH650592, T.W. Otleby & S.L. Pilkington 15060803, conf. G.P. Rothero.
- 163.2. *Platyhypnidium lusitanicum*. 73:** rocks in river, 50 m alt., Water of Minnoch below Old Minnoch Bridge, NX3718975757, 2014, E.-J. Sadler (E); **74:** rocks in river, 5 m alt.,



△Fig. 7. Coum Iarthar, Comeragh Mts., the site for several new vice-county records in Co. Waterford. R.L. Hodd



△Fig. 8. The northern slopes of Muckanaght, Co. Galway, location of *Isopterygiopsis mulleriana*. R.L. Hodd

west bank of River Cree at Newton Stewart, NX4126065258, 2014, E.-J. Sadler (E); **105:** on wet rocks in waterfall, 200 m alt., Abhainn Coire Mhic Nobuil, Torridon, NG87525897, 2014, G.P. Rothero 2014124.

164.1. *Rhynchostegium murale*. 76: on mortar of roadside wall, 50 m alt., Calder Glen, Lochwinnoch, NS349595, M. Pool.

165.4. *Rhynchostegiella teneriffae*. 24: stonework of lock, Grand Union Canal, Slapton, SP9285220291, S.V. O'Leary; **76:** on wet rocks in wooded ravine, 80 m alt., Devol Glen, above Port Glasgow, NS31037424, T.L. Blockeel 44/397.

166.1. *Cirriphyllum piliferum*. 76: woodland floor, on ground and rotting wood, 20 m alt.,

Ardgowan Estate, NS20857360, R.H. Carter *et al.*

170.4. *Brachythecium salebrosum*. 35: 4 m up mature hazel, Wentwood, ST41029345, S.D.S. Bosanquet.

171.2. *Scleropodium touretii*. 17: on crumbly soil on rabbit-cropped grassy bank, 190 m alt., Colekitchen Hole, TQ095487, H.W. Wallis.

172.1. *Eurhynchiastrum pulchellum*. 92: thin soil on limestone crag, 490 m alt., Craig Leek, NO18939291, D.A. Callaghan.

177.2. *Calliergonella lindbergii*. H21: on rocks on shore of lower reservoir, Bohernabreena reservoir, Glenasmole, O089231, R.L. Hodd, G.F. Smith *et al.* (DBN) (Fig. 3).

179.1. *Pylaisia polyantha*. 58: at 2m height on trunk of mature ash at edge of woodland, 150 m alt., Windmill Wood, Alderley Edge, SJ8514577618, D.A. Callaghan.

187.1. *Pterigynandrum filiforme*. 49: two small patches on lakeward face of boulder, 655 m alt., edge of Ffynnon Lloer, SH6622062152, S.D.S. Bosanquet.

190.1. *Loeskeobryum brevirostre*. 59: on rock at side of foot-track in wooded ravine, 225 m alt., Leadmines Clough, Anglezarke, SD630166, A. Gregory; **76:** base of tree in wooded glen, ca 140 m alt., Kip Water, Shielhill Glen, NS23857177, M. Ghullam.

192.1. *Hylocomium splendens*. 56: by old ant-hill in grass-heath, Clumber Park, SK6377874442, T.L. Blockeel, M. Crittenden & S. Heathcote 44/767.

196.2. *Orthothecium intricatum*. H6: on base-rich ledge, 500 m alt., Coum Iarthar, S312128, R.L. Hodd (DBN) (Fig. 7).

197.4. *Plagiothecium laetum*. 56: on fallen log, 40 m alt., Clumber Park, SK634753, S. Heathcote *et al.*

197.7. *Plagiothecium cavifolium*. 78: NE-facing montane crag, 660 m alt.,

Polmood Craig, Tweedsmuir Hills SSSI, NT1507524507, D.A. Callaghan; **H6**: crevice of somewhat calcareous cliff, 655 m alt., Coum Iarthar, S3133012137, R.L. Hodd (DBN) (Fig. 7).

198.1. *Isopterygiopsis muelleriana*. H16: in damp calcareous crevice, 525 m alt., north slope of Muckanaght, L7692754172, R.L. Hodd (DBN) (Fig. 8).

210.3. *Neckera pumila*. 32: on horizontal branch of willow in deep shade, mixed woodland, 115 m alt., Ravenstone Road Copse, SP8471353029, 2014, F.A. Higgs, refound 9 July 2015; **65**: on trunk of sycamore on river bank, 100 m alt., east bank of R. Lune, Lincoln's Inn Bridge, west of Sedbergh, SD63209233, T.L. Blockeel 44/422; **67**: on hazel in wooded bouldery gorge, with *Zygodon conoideus* and *Frullania tamarisci*, Irthing Gorge, NY6352368311, A. McLay.

214.1.b. *Isothecium myosuroides* var. *brachythecioides*. 94: amongst other large pleurocarps on grassy ledge of sloping grassland above rocky shore, coast east of Portsoy, NJ596664, A.G. Payne.

216.3. *Anomodon viticulosus*. 76: rock face, White Cart Water, Busby Glen, NS579567, K. Watson; **H20**: on calcareous rock face, Devil's Glen, T242991, 2014, R.L. Hodd, K. Connolly *et al.* (DBN).

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