

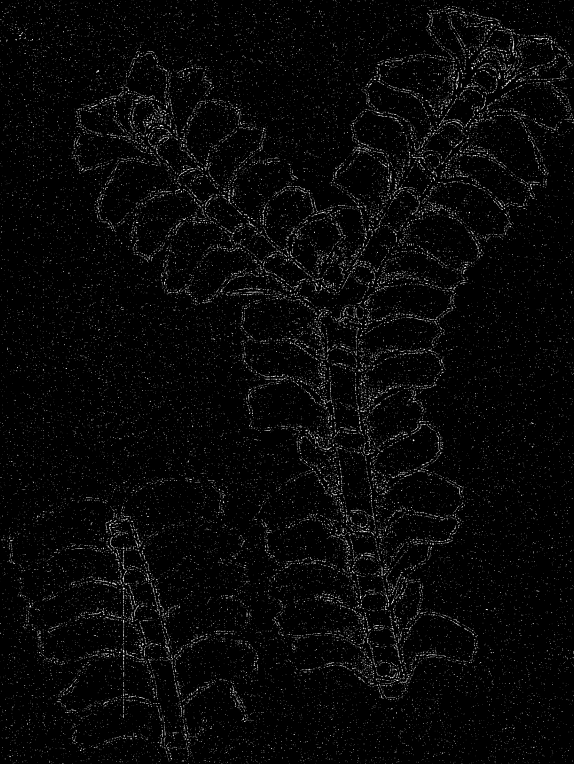


BULLETIN
OF THE
BRITISH
BRYOLOGICAL SOCIETY

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Edited by A.R. Perry

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BRITISH BRYOLOGICAL SOCIETY

The British Bryological Society exists to promote the study of mosses and liverworts. The Society was constituted in its present form in 1923, replacing the Moss Exchange Club founded in 1896.

Two Field Meetings, each usually of a week's duration are held every year in districts of bryological interest. In addition two weekend meetings are held in the autumn, one for the Annual General Meeting, the presentation of papers and fieldwork, and the other for practical instruction in the examination and identification of bryophytes.

Members of the Society are entitled to receive the Society's *Journal* and its *Bulletin* free of charge, to borrow books, pamphlets and reprints from the Society's library, to consult or borrow specimens from the Society's herbarium, and to consult the Society's panel of referees for assistance in the identification of specimens.

The subscription due in advance on 1 January each year, is £15.00 for Ordinary Members, £1.00 for Family Members (who do not receive the *Journal*) and £7.50 for Junior Members.

Applications for membership should be addressed to the Membership Secretary, from whom further particulars may be obtained.

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The cover illustration is of *Bazzania parvula* Steph. from *A Revision of the Material of New Guinea Bazzania (Hypnaceae) in the British Museum* (unpublished M.Sc. thesis, Reading University) by Alan Orange. The size of the original is approximately 170 × 210 mm.



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SUBSCRIPTIONS 1994

Subscriptions were due on 1 January. They remain at £15.00 for full members, £7.50 for student members and £1.00 for family members. Some subscriptions are still outstanding for 1994 and it would be appreciated if members would check their records and make the appropriate remittance in order to save the cost of sending out reminders. Cheques etc. should be made out to The British Bryological Society and forwarded to the Hon. Membership Secretary.

REPORTS OF OFFICERS FOR 1993

a) GENERAL SECRETARY'S REPORT

The Society has been saddened by the deaths of two long-standing members this year. A recently retired President, Mr Peter Wanstall had attended meetings regularly for many years. Less well known to British members in person, Miss Elva Lawton was highly regarded for her work in the United States,

In the past twelve months, magnificent progress has been made with proposals to celebrate the Society's centenary in 1996. Council sees the occasion as an opportunity to further bryology in as many ways as possible and, with this in mind, the centenary committee has begun to formulate plans. They include, not only a high-profile international symposium to promote some of the most exciting and productive modern research, but also a range of other meetings and publications. One in particular, a new Census Catalogue, will be welcomed by all those members who take an interest in the efficiently organized recording schemes. It is hoped that in all these ways the Society will add further impetus to the co-operative effort which is central to its objectives.

Quite apart from these ambitious plans for the future, the Society's ordinary business appears to be healthy. Appreciative use continues to be made of the library, reading circle, herbarium and bibliography. Taken in conjunction with a well-attended programme of meetings, this can be regarded as good evidence of a flourishing society. We have seen, during the year, the first two issues of the *Journal* to be printed by W.S. Maney & Son, Ltd, of Leeds, and both have met with acclaim. At one and the same time, the standard is high and the price more modest than it would have been with our former publisher. They and the attractive *Bulletin* are fitting ambassadors for the Society. It is similarly encouraging that our membership figures remain high. We know from a detailed survey carried out by our Membership Secretary that these figures compare very favourably with those of similar societies and a new address list will soon be circulated to all members. Drawn up by our Membership Secretary, it embodies an immense amount of dedicated work and attention to detail, and we all owe him a debt of gratitude.

It is because of this kind of work by Council members, referees, local secretaries and regional recorders that the Society continues to be approached alike by individuals and official organizations, among them conservation bodies. Dr G.C.S. Clarke, who has played a central role as Treasurer, relinquished office at the end of the year, and we owe him our thanks for careful work over the years. Our President of the last two years, Prof. J.G. Duckett, has also made a significant and highly effective contribution to the present good

standing of the Society. Council would welcome any new ideas and your views on our activities as we attempt to build upon these foundations.

M.E. Newton, January 1994

b) TREASURER'S REPORT

Preliminary statement of affairs as at 31 December 1993

1992 (£)	<u>Assets</u>	1993 (£)
2,305.27	Nat. West. current a/c	1,382.09
20,521.97	business reserve a/c	18,201.45
363.00	Giro	676.00
36,998.31	National Savings Investment a/c	39,347.94
<u>60,188.55</u>		<u>59,607.48</u>
	<u>Liabilities</u>	
8,875.73	Publication cost of <i>J. Bryol.</i> (net)	2,746.11
<u>51,312.82</u>		<u>56,861.37</u>

This has been a comparatively quiet year for the Society from the financial point of view. We have not had any unusual or unusually substantial expenses. The result is that we finish the year with a very healthy balance in reserve which is, of course, good news.

However, the figures above highlight one startling difference to our finances in 1993 which can be seen under the 'liabilities' heading. During 1993 our publication of *J. Bryol.* was handled by W.S. Maney and Sons rather than by Blackwell's. Our net publication cost, which is the total cost less the subscription income from institutions, has reduced by two thirds and saved us more than £6,000. To put this in perspective, our total annual income from members' subscriptions is in the order of £7,500. In 1992 we spent more than all the subscriptions put together on the *Journal*, in 1993 there is a surplus of nearly £5,000. This saving has been made with no reduction in the quality of the *Journal* and much improved personal service from the publishers. This change in publishers means that the Society's finances are on a very much better footing than before since we are now living within our means.

It also means that whatever money we set aside in the Trudy Side Trust fund, is secure from erosion by our normal annual running expenses.

Reverting from this optimism to normal Treasurer mode, I should point out that with the substantial reduction in interest rates that has taken place over the year, there is a concomitant reduction in our investment income. This has been running at an encouraging high rate in recent years but is much more modest now.

As I come to the end of my term as Treasurer, I would like to thank Dick Gutteridge for the time and effort he has put into auditing our accounts and my fellow members of Council for the good nature with which they have put up with my sermonizing. As a parting shot, if I can try their patience once more, I still feel that while we are good at producing first-rate bryological materials for sale, we have not begun to crack the problem of marketing.

Giles Clarke, March 1994

c) BIBLIOGRAPHER'S REPORT

Recent Bryological Literature numbers 79 and 80 have appeared in the *Journal of Bryology*, number 81 is in press and number 82 in preparation. I am grateful to all those who have sent me references or reprints for inclusion in these lists. Once again, particular thanks are owed to the staff of the Botany Library at the Natural History Museum, London, for their co-operation and assistance. I much appreciate receiving details of papers and books which I may have overlooked.

L.T. Ellis, March 1994

d) BULLETIN EDITOR'S REPORT

Bulletins 61 and 62 were prepared and published during the year and I am grateful to everyone who supplied me with their material on disk. The question as to whether we accept commercial advertisements for insertion into the *Bulletin* has presented itself again. I have so far resisted them on the perhaps not very reasonable grounds that they would make the *Bulletin* messy; but they would generate some income and perhaps should be accepted. It would be good to know members' views.

A.R. Perry, February 1994

e) CONSERVATION OFFICER'S REPORT

1. The Red Data Book for Bryophytes in Great Britain and Ireland is in the final editing stages and it is hoped that it will be published in 1994.
2. The Joint Nature Conservation Committee has reappointed Nick Hodgetts for a further 5 years; his duties, however, are no longer confined to lower plants. A new project, the preparation of a Lower Plant Biodiversity Register, has been initiated by the JNCC; this will concentrate on rare, scarce and declining species, and the BBS will be consulted as appropriate.
3. The Conservation Committee met in London in March and in Ripon in September. New members have been appointed and the composition is now:
Rod Stern (Chairman), Nick Hodgetts (Secretary), Alan Crundwell, Peter Pitkin, Giles Clarke, Ron Porley, Gordon Rothero, Tim Blackstock ('observer' from Countryside Council for Wales).
4. Among matters discussed was the provision of information by Regional Recorders. It was agreed that a guidance note should be issued shortly.
5. A new project has been started in Scotland, funded by Scottish Natural Heritage to determine the status of the Schedule 8 species.
6. RCS has continued to attend meetings of the Board and Conservation Committee of Plantlife, and has endeavoured to ensure that bryophytes are properly recognized, for example in the contribution to the Prospectus for a Plant Conservation Strategy being prepared by Plantlife Link.

R.C. Stern, February 1994

f) CURATOR'S REPORT

Voucher specimens incorporated in BBSUK were 126 mosses and 42 liverworts. There were 13 loans totalling 140 mosses and 172 liverworts.

A.R. Perry, February 1994

g) JOURNAL EDITOR'S REPORT

Journal of Bryology was produced in association with our new publisher W.S. Maney & Son Ltd of Leeds for the first time in 1993. I am happy to report that an excellent working relationship has developed between us and there have been no major complaints about the quality of the final two parts of volume 17 which continued the format used since 1974. Part 3 contained 133 + ii pages, part 4 contained 183 + viii pages. Page 617 contained the first colour photographs ever reproduced in the *Journal* (see below). The slightly late appearance of part 4 resulted from an unfortunate chain of events which is unlikely to be repeated.

During 1993 I received 46 manuscripts of original scientific papers and bryological notes. Of these, 34 were eventually accepted for publication, ten (22%) were rejected and two are still under revision.

A new, illustrated, cover design, in bryological green, was presented to the Society and accepted during the year and will be used from part 1 of volume 18 which is already with the printers. Changes to the format of the reference list and other stylistic alterations will also apply from that issue. Authors should consult the most recent part for changes to the required format for manuscripts. Several members have enquired about the possibility of submitting colour photographs for reproduction. Currently this can only be considered if inclusion of the photographs is merited on scientific grounds and if the author is prepared to meet the full cost (more than £400 per page).

The smooth operation of the *Journal* is made possible only by the tireless efforts of the panel of Associate Editors and of the many bryologists world-wide who uncomplainingly act as referees. I thank them all warmly on behalf of the Society. It is planned that a list of referees will be published in the final part of each volume, starting with volume 18, to acknowledge this invaluable help more adequately.

J.W. Bates, March 1994

h) LIBRARIAN'S REPORT

Sales:	<i>J. Bryology</i> (parts)	41
	<i>TBBS</i> (parts)	21
	<i>Distribution of Bryophytes</i>	17
	Census Catalogues (old)	6
	Hepatics of Europe and the Azores	1
	BBS <i>Bulletins</i>	45
	BBS Library Catalogues	5
	Moss Wall Charts	4
	Special Volume: Jubilee	1
	Special Volume: Chromosomes	3
	Special Volume: Tropical Bryophytes	4
	Special Volume: Mosses in English Literature	2

Bryology (Linn.Soc.)	3
<i>Mosses & Liverworts of Woodland</i>	10
German/English Glossary	1
×20 lenses	46
Stainless steel forceps	16
BBS ties	1
Loans: 35 mm slides	2

As the company supplying our Idealtek forceps has gone into receivership and we can no longer obtain them at a reasonable price, we have switched to another company supplying a much cheaper but slightly less fine-pointed product. The librarian would welcome feedback from members on the suitability of this replacement.

Ken Adams, January 1994

i) MEETINGS SECRETARY'S REPORT

The spring meeting this year was a real treat. Jeff Bates organized a week in Brittany, based at the seaside town of Douarnenez, that was not only wonderful for the participants but scientifically valuable as well. During the week members of the party contributed substantially to the bryological knowledge of this rich oceanic region and even recorded several species new to France. The hospitality was a delight as well, particularly the famous seafood and cheese of the area and the French wines. The attendance of one French bryologist and two German ones was particularly welcome. Jeff is to be congratulated on organizing such an excellent meeting. The cost of attending the meeting was probably only a little more than that of a meeting in Britain and I hope its success will point the way to further meetings abroad in the future, and encourage more members to attend them.

The south-west of Scotland provided the venue for the summer meeting, organised by Alastair Rowan and based at Castle Douglas. A reasonable number attended, including several local Scottish Natural Heritage staff, and all enjoyed the very varied programme organised efficiently by Alastair. The week was not 'stuffed with rarities', but a wide range of species was seen in this rather under-recorded but beautiful part of Britain. Arable fields in particular seem to have been a rich vein of new vice-county records: after all, they have probably never before been looked at in any detail in this part of the country.

The autumn meeting took place in the genteel setting of Ripon, at the University College of Ripon and St John. My thanks to Mike Longman for organizing it so well, and to all the speakers for giving interesting and entertaining presentations. We had a beautiful September day for the excursion to Hackfall Wood on the Sunday, which helped to complete an enjoyable weekend.

The taxonomic workshop, or perhaps one should simply call it a 'workshop' now, was devoted to the study of sexuality in bryophytes and took place at the University of Reading. After a freezing Saturday in the field, when bits of fertile *Sphagnum* etc. were chipped away from the substrate, the Sunday was spent examining our collections in the cosy warmth of the labs. Royce Longton and Jeff Duckett gave short presentations on mosses and liverworts respectively. My thanks to both, and particularly to Royce for hosting the meeting. The high attendance proved that there is a demand for this kind of workshop meeting but as my predecessor Philip Lightowlers said, they are very difficult to find local secretaries and

venues for. If anyone would like to volunteer for future meetings, or has any suggestions for topics, please let me know!

I am continuing Philip's practice of providing attendance figures for meetings, and it may be of interest to compare this year's figures with those of last year, even though they are not strictly comparable because of the different nature of the meetings. The drop in attendance compared with last year is almost entirely due to the spring meeting being held in Brittany rather than Britain, so it is not really a cause for concern.

	1992	1993
Spring meeting	48	16
Summer meeting week 1	16	19
Summer meeting week 2	8	-
AGM weekend	50	42
Workshop	13	20
TOTAL	135	97

The year has been characterized by the activities of the expanding network of local groups including the southern group, the south-eastern group, the north-western group (with the North-Western Naturalists' Union), the Leicester group and of course the Cambridge group. Hopefully these groups will continue to be active and new ones will form in other areas.

Once again, my thanks to all the local secretaries, organisers and helpers who have made our meetings so successful. However, may I reiterate that finding venues, organisers and speakers for the AGM and workshop meetings is not always easy, so I would be most grateful if anyone has any ideas or would like to volunteer!

Finally I would like to thank Philip Lightowlers, my predecessor, for leaving me with neat and tidy files and lots of useful ideas for the future, and Martha Newton for her support during my first year as Meetings Secretary.

Nick Hodgetts, February 1994

j) MEMBERSHIP SECRETARY'S REPORT

Membership numbers for the past 5 years are given in the table below. This shows that there is a pleasing increase overall. In part this can be attributed to the coincidence of low losses and a high intake of new members, neither figure being unprecedented. Nevertheless, it is good to see the steady increase over the last 4 years. Perhaps the best indication of the health of the Society is the fact that the turnover ratio ((Gains + Losses)/Total) is remarkably constant.

At the time of writing (25 January), some two thirds of members have paid their subscriptions for 1994. This is a big improvement on previous years and is probably due to the fact that reminder notices were sent out in mid January so that members were aware of their obligations. This was the first time this has been done in recent years and apologies are due to some half dozen members who received unjustified demands. It is hoped that the system will work better next year! Regrettably second reminders will probably be necessary

(over 100 in 1993!). Grateful thanks are due to Diana Horton for her hard work in collecting North American dues.

A new membership list has been produced and thanks are due for help in proof reading by Martha Newton (remaining errors are mine!) and to the publisher for helpful discussions concerning preparation of camera-ready copy. It is intended that updates will be printed in each *Bulletin* but noted that the last entries may predate the appearance of the *Bulletin* by 2-3 months. The membership records are now on a new data base, which makes it easier to produce address lists and labels. It is emphasized however that subscription data is NOT held on computer.

MEMBERSHIP NUMBERS

	1989	1990	1991	1992	1993
New Members					
UK	20	20	19	26	24
Overseas	7	8	9	4	11
Total	27	28	36	30	35
Members lost by:					
Death	8	5	3	4	2
Resignation	11	9	11	9	3
Other	10	15	9	13	19
Total Losses	29	29	23	26	24
Total Overseas	207	199	190	186	187
Total UK	323	330	352	360	370
NET TOTAL	530	529	542	546	557
Comprising:					
Honorary	14	13	12	11	11
Ordinary & Junior	502	503	512	513	524
Family	14	13	18	22	22
Turnover ratio x 100	11	11	11	10	10

A.V. Smith, January 1994

k) PUBLICITY OFFICER'S REPORT

Sweatshirts: Since the reorder of 40 Large and XLarge BBS sweatshirts in September 1993, 32 have been sold, these takings exceeding the new investment but not yet the total cost. A few of the original 'Medium' shirts have moved on the momentum of the new stock, but there remain 20 awaiting the enrolment of smaller members.

Moss Gardens: Since the request in *Bulletin 61* for information concerning any Moss Gardens in Britain and Ireland, I have received information of three: one small one in Cheshire (photographed, but now 'moved' to London), one in the Isle of Wight, and an 'experimental' one in Kumaon, India.

Postcard competition: By the Spring Meeting, all the 186 submitted entries from 20 members should have been judged, and at the Spring Meeting a decision will be made as to how many postcards the Society will order.

Common names: Work on common names for bryophytes has now accumulated 2,590 published or submitted common names for British bryophytes (2,239 for mosses, 11 for hornworts, and 284 for liverworts), plus 56 common names for non-British bryophytes. A total of 64 sources have now been examined and referenced, and many of these have themselves gathered from further sources which are sub-referenced when known. Most of the common names have each been found in two or more sources, several times in eight or more sources although these include duplicate finds through secondary sources. Many commoner bryophytes have several common names, whilst others have none. The rarest plants have had to have common names coined for reasons of legislation, which is ironic. The total figure this time last year was 1,808. Although the growth of the list must be asymptotic, it will never be complete. The time must come when the list is closed and a selection of preferred names is made, as agreed by Council. I suggest another year, and in the meantime the list is available to aid decisions in particular cases.

Travelling exhibition: At last the Exhibition has ceased to travel, at least through the agency of Bradford City Council. It has travelled almost continuously since 1987, and has to all accounts served bryophytes and the Society well. It has now come to rest at The Manchester Museum, but belongs to the BBS who may yet think of further uses for it, perhaps during the Centenary year (1996).

BBC Wildlife, 1992: This request from Robin Robbins for a mossy subjects/topics for a 'Wildlife' photography supplement featuring 24 'first-class photographers' (which they would provide), was not reported last year, because it yielded only an apology that the 'pictures did not come up with the splendid snail/bryophyte/churchyard combinations' she had envisaged. Items such as this occur quite regularly, and can involve much time from many members, only to lose to the appeal of some gaudy orchid or furry wide-eyed creature. Generally I have not occupied report-space with such infertile diverticuli, but it was suggested that I should, hence this belated item, and also the following three items.

Nature Detectives: We were asked in May by the producer of the BBC Natural History Unit, to provide natural history puzzles or questions to enthuse viewers. Owing to the shortage of time only Council members were approached, and four fascinating questions were contributed as requested. None was used. Judging from the list of 19 Societies published under a follow-up article on the same topic in *BBC Wildlife*, nature means animals, despite their writing to us in the first place.

Flora Britannica: I continue to receive mailshots from *F. B.*, although it is clear from the *Flora Britannica: The Handbook* (as reported last year) that bryophytes are not flora.

Obscure societies: Another non-event: I was forwarded by the Secretary a *Grauniad* report (28/11/92) entitled 'Gather no moss or face a fine', concerning the Derbyshire Feathermoss

(*Thamnobryum angustifolium*), stating: 'Obscure societies like the British Bryological Society (mosses and liverworts, membership about 500) have helped the committee decide which species need protection from collectors like themselves.' It was suggested that a letter from the Publicity Officer might be appropriate, but, especially since the report was sent to me two months after publication, I decided that a reply would not only be pointless but probably also counterproductive.

Future publicity: It is clear from this report that bryophytes have an inherent image problem, even compared with lichens or ferns, and that publicity can backfire. Much publicity or advertising is expensive (e.g. *Natural World*: £47/quarter-column cm; £540-680/quarter-page mono, exc. VAT) and unproductive. I feel we have not done badly, but would appreciate suggestions especially with the Centenary less than two years ahead. In particular:

a) The word 'bryophytes' always needs popular translation; can 'mosses' (which is linguistically legitimate) be used without offending hepaticologists and anthocerotologists? Unlike almost all similar societies, we lack a one-word focus.

b) The most effective way of publicizing the BBS is probably in the form of popular articles such as those by June Chatfield (1986) and Fred Rumsey (1990). There is a limit to the frequency with which mossy articles can be published, and I would like ideas on a real Centenary humdinger, possibly combined author, maybe using some of the superb photographs submitted by members for the postcard competition.

c) Margaret Hartley advises (with some experience) that centenaries also have an image problem, if not even a negative effect, with 'outsiders', and cautions against trumpeting 100 years of mosses in order to gain publicity. Also, 'centenary publications' become outdated and almost unsaleable within a year.

References

Chatfield, June (1986). Mystery of mosses. *Natural World* **18**: 24-25.

Rumsey, F. (1990). Spotlight: Beautiful bryophytes. *Biological Sciences Review* **3**(1): 32-35.

S.R. Edwards, February 1994

I) READING CIRCLE SECRETARY'S REPORT

Reading circle membership has increased slightly to 31. During the year, circulation of contents lists has been rather irregular, but lists for a total of 19 issues of the five journals (*Annales Botanici Fennici*, *The Bryologist*, *Cryptogamie*, *Journal of the Hattori Botanical Laboratory* and *Lindbergia*) were sent out. From these, 36 articles were supplied to 12 members. It is anticipated that *The Bryologist* will once again be available on a regular basis from 1994.

Financial Statement

INCOME	£
Members' credit at 1.i.1993	135.47
Income	40.00
Total	175.47
EXPENDITURE	
Photocopies supplied	32.75
Postage	18.43

Administration	3.45
Total	54.63
Excess of income over expenditure	120.84
Less members' credit at 31.xii.1993	123.35
Excess of expenditure	2.51

M.A.S. Burton, March 1994

m) REPORT OF THE RECORDER FOR HEPATICAE

New records are slightly down on last year but nevertheless include some choice discoveries: in England another new site for *Lophocolea bispinosa*, in large quantity in a disused quarry in Sussex, could perhaps be a sign that another exotic species is about to establish itself much more widely? New records of *Sphaerocarpos* are rare but welcome events, also in Sussex. *Leiocolea rutheana* in NW England represents a significant find of a rare and sensitive fen species. *Fossombronia pusilla* var. *maritima* and *Frullania microphylla* var. *deciduiifolia* are both new to Wales, the second is new to the British Isles; also of great interest are new Welsh records for *Jungermannia borealis* and *Scapania paludicola*. Diligent searching in Ireland has come up with a particularly significant new record, *Riccia crozalsii* in West Cork, new to Ireland, as well as further records of *R. fluitans*.

Once again Jean Paton is thanked for generously giving of her time to check critical taxa and Tom Blockeel for useful information and comments.

	New records collected 1992-93	New records collected pre-1992	Deletions
England	12	3	0
Wales	8	1	0
Scotland	9	1	0
Ireland	6	3	6
Total new records	43		

D. G. Long, January 1994

n) REPORT OF THE RECORDER FOR MOSSES

The welcome trend in increasing numbers of records has continued in 1993. In addition the distributions of the taxonomic segregates *Ditrichum crispatisimum* and *Pohlia prolifera* have been established by Tony (A.J.E.) Smith and Alan Crundwell respectively. Mark Hill has revised the British records of *Eurhynchium pulchellum*.

An analysis of the year's records follows. The revisions of the *Ditrichum flexicaule* agg. and *Pohlia prolifera sens. str.* are not included.

	New records collected 1992-93	New records collected pre-1992	Deletions
England	67	6	2
Wales	13	0	1
Scotland	40	1	0
Ireland	14	3	0
Totals	134	10	3

Notable this year have been the additions of *Tortella fragilis*, *Orthodontium gracile* and *Homomallium incurvatum* to the Irish flora. *Fissidens serrulatus* has been found in a second Irish locality, and there have been new sites for *Seligeria acutifolia* and *Tortella densa* in the country.

In Scotland, the more notable finds include a second station for *Hypnum vaucheri*, the first lowland record this century for *Sphagnum lindbergii*, and new records of *Paraleucobryum longifolium*, *Fissidens rivularis*, *Mnium ambiguum* and *Sanionia orthothecioides*. The record of *Barbula trifaria* in Shetland is a large northwards extension of range.

There have also been many interesting reports from England and Wales. The new stations for *Sphagnum pulchrum*, *Dicranum spurium* and *D. undulatum* are particularly noteworthy, but there have also been new records for *Ditrichum plumbicola*, *Tortula vahliana*, *T. cuneifolia*, *Aloina brevirostris*, *Ephemerum stellatum* and *Bryum gemmilucens*. The range of *Fissidens celticus* has been extended into central parts of England.

I would like to thank Chris Preston for his efforts in correcting sundry previous recording errors, and for his assistance with a vice-county boundary problem. Alan Crundwell and Mark Hill have kindly examined a number of specimens, and Roy Perry has provided herbarium material from NMW and BBSUK.

T.L. Blockeel, February 1994

o) RECORDING SECRETARY'S REPORT

A modest number of completed record cards for the continuing BBS mapping scheme was received in 1993. These were predominantly from areas where local flora projects are under way. At a meeting of the Recording Committee in December 1993 concern was expressed about the poor return of cards completed during the Society's Spring and Summer field meetings in recent years. These are often held in areas where few other records are being made. The Meetings Secretary has agreed to appoint an additional person to take responsibility for the completion and return of the records made during each meeting.

The pilot scheme to record epiphytic bryophytes in selected tetrads within a belt across southern Britain, ran from 1 September 1992 until 31 May 1993 but was extended until 30 November 1993 as several members were unable to complete their tetrads. I have still not received all promised tetrad records but it looks as if the project was modestly successful in terms of coverage. If the shortfall is not too excessive further efforts will be made to complete the survey in 1994.

A planned intensive survey of the Irish counties of Waterford and Wexford has had to be postponed because of difficulty in finding an Irish co-ordinator of field excursions. It is hoped that the scheme can be resurrected at some future date.

J.W. Bates, March 1994

MINUTES OF THE ANNUAL GENERAL MEETING, RIPON, 1993

Minutes of the Annual General Meeting held at the College of Ripon & York St John, Ripon, at 4.45 p.m. on Saturday, 18 September, 1993.

PRESENT: Prof. J.G. Duckett (President, in the chair) and 37 other members.

The President opened the meeting by recording the death, during the year, of Mr P.J. Wanstall, a former President, and members stood as a mark of respect.

Prof. Duckett then drew attention to the Society's gavel, presented in 1968 by the late Mr and Mrs R.D. Fitzgerald. Fashioned from Irish bog oak found by them, its inscribed silver plate was added by Mr Wanstall.

(1) **APOLOGIES FOR ABSENCE:** Apologies had been received from Dr K.J. Adams, Mr G. Bloom, Mr L.T. Ellis, Mr & Mrs R.N. Gutteridge, Miss J.M. Ide, Mr D.G. Long, Dr M.C.F. Proctor, Mr D.M. Synnott and Dr E.V. Watson.

(2) **MINUTES OF THE LAST A.G.M., EAST SUSSEX, 1992:** Dr P.E. Stanley questioned Item 5(a) concerning members' right to inspect the minute book on request at either of the two meetings, spring and autumn, to which it is normally taken. He considered that no restriction had been placed on the inspection of Council minutes, but this view was not supported (Prof. Duckett, Dr M.E. Newton), Mr A.R. Perry expressing the opinion that members' access to the book throughout the year would be unreasonable. With the approval of the A.G.M., the minutes, as published in *Bulletin* 62, were therefore signed as an accurate record of the meeting.

(3) **MATTER ARISING:**

Item 11(c), **Joint Meeting with the British Lichen Society:** Mr E.R. Hurr reported that he had been pleased to arrange such a meeting through the South East Group of the B.B.S.

(4) **REPORTS OF OFFICERS FOR 1992:** These had been circulated to members in *Bulletin* 62, and gave rise to the following discussion:

b) **Treasurer:** Dr G.C.S. Clarke provided final accounts, which had been seen by the auditor. They differed from the preliminary statement of affairs most notably in that Blackwell's invoice, estimated as £11,363.00, had proved to be for a total of £8,875.73. In taking members through the accounts, Dr Clarke drew particular attention to salient figures. Assets currently held were in excess of £60,000, and the year's accounts showed an excess of income over expenditure of £523.08. He emphasized, however, that this involved interest of some £4,411 on investments, and indicated a need for careful management to avoid capital erosion.

- d) **Bulletin Editor:** In response to a question from Dr Stanley, Mr Perry said he received most material for the *Bulletin* on disk. The rest, received as hard copy, he was now scanning as far as possible.
- e) **Conservation Officer:** Mr R.C. Stern reported that Council had discussed legally protected bryophytes and he intended to provide details of the species involved for the *Bulletin*.

(5) **REPORT FROM COUNCIL:**

- a) **Membership Figures:** Prof. Duckett reported that Mr A.V. Smith had carried out a valuable comparison of membership within the B.B.S., British Arachnological Society and British Lichen Society. Very similar trends were evident in all, and it was clear that the situation was a healthy one. He thanked Mr Smith for the effort he had put into this review, which it would be useful to repeat from time to time. Mr Smith said a copy of the report was available.
- b) **B.B.S. Centenary:** The committee set up by Council had put forward various ideas for, among other things, a major international symposium, publications, and field meetings. It was intended to put forward substantive proposals at the next Council meeting.
- c) **Call for Photographs:** Prof. Duckett repeated a request made at the last A.G.M. for photographs of members, and Prof. M.R.D. Seaward suggested a group photograph might be taken during this meeting. There was a list of about 100 members represented in the photographic archives, and Prof. Seaward said calls continued to be made on these. In response to a question from Dr Stanley, he said that the collection made by the late Mr E.C. Wallace was also in the archives.
- d) **Estate of Dr E.W. Jones:** The Society had benefited from a substantial bequest of bryological books and reprints, which were currently being catalogued. A manuscript flora of West African hepatics had been bequeathed to Edinburgh Botanic Garden, and Prof. Duckett reported the concerted efforts of the B.B.S. Tropical Bryology Group to ensure its publication.
- e) **B.B.S. Insurance Cover:** Prof. Duckett reported that a new insurance policy had been taken out with Cornhill, covering the library as well as public liability. All organizers of meetings would be provided with copies. It did not cover injuries sustained on a one-to-one basis between members at meetings, but Prof. Seaward said the British Lichen Society had such cover. It was resolved that Mr N.G. Hodgetts would seek details from the treasurer of the B.L.S.
- f) **Honorary Membership Committee:** Prof. Duckett reported that the Committee, consisting of Dr M.O. Hill, Dr R.E. Longton, Dr Newton and himself, had been actively reviewing the various candidates, including proposals put to them by members over the year. No recommendation was being made at present but would be next year.
- g) **New Publisher of J. Bryol.:** W.S. Maney & Son, Limited, of Leeds, had effected radical changes in publishing the *J. Bryol.* and were to be congratulated. Prof. Duckett said they were providing a substantially cheaper service and were very approachable. Criticisms, such as that of the loose binding, of which Dr J.W. Bates was aware, should therefore be reported in an effort to maintain these initially high standards. Dr Bates, in conjunction with Maney's had proposed a new cover for vol. 18, and the design had been enthusiastically approved by Council.
- h) **Marketing Policy:** Prof. Duckett considered that the Society had a lot of attractive things to sell and, with this in mind, Council had set in motion plans to introduce a regular sales-stall at the A.G.M., and probably also the spring meeting.

(6) ELECTION OF OFFICERS:

- a) **Vice-President:** Prof. Duckett reported two nominations. The first was Mr A.R. Perry (proposed by Dr P.E. Stanley; seconded by Dr E.V. Watson), and the second, also Mr Perry, was that of Council.
- b) **Treasurer:** Dr G.C.S. Clarke had expressed his wish to retire, and Mr E.R. Hurr had accepted Council's nomination. There were no other nominations.
- c-) **Other Officers:** Council had nominated their present incumbents for re-election as follows: Bibliographer (Mr L.T. Ellis), Bulletin Editor (Mr A.R. Perry), Conservation Officer (Mr R.C. Stern), Curator (Mr A.R. Perry), Librarian (Dr K.J. Adams), Membership Secretary (Mr A.V. Smith), Publicity Officer (Dr S.R. Edwards), Reading Circle Secretary (Dr M.A.S. Burton), Recorder for Hepaticae (Mr D.G. Long), and Recorder for Mosses (Mr T.L. Blockeel).

In the absence of other nominations, all the above were declared elected.

- (7) ELECTION OF ELECTED MEMBERS OF COUNCIL:** Dr Newton said Council had nominated Mr T.H. Blackstock, Mrs C.S. Rieser and Mr M. Wigginton, and other nominations had not been received. All were declared elected.

- (8) PLACE AND DATE OF NEXT ANNUAL GENERAL MEETING:** It was announced that this would be at Preston Montford Field Centre, near Shrewsbury, at 4.30 p.m. on Saturday, 24 September, 1994.

- (9) OTHER FUTURE MEETINGS:** Mr Hodgetts reported that meetings up to and including the summer meeting of 1994 would be as advertised in *Bulletin* 62, except that the spring meeting would be based in Weymouth rather than Dorchester. Other plans, as far ahead as the Centenary year of 1996, were still under discussion, and suggestions would be welcomed. Initial plans were for a symposium and field excursion in Scotland during the summer of 1996. Dolgellau, suggested by Mr R.J. Fisk as having been the venue for the inaugural meeting of the B.B.S., was thought to be unsuitable for a large international gathering, but Mr G.P. Rothero raised the interesting possibility of a spring meeting there. Dr Longton reminded members that the next bryophyte workshop would be in Reading, where he and Prof. Duckett would act as tutors, and he encouraged members to take part.

(10) ANY OTHER BUSINESS:

- a) **Statement by Dr P.E. Stanley:** Dr Stanley said he wished to make a statement, of which he undertook to supply a copy to the President and Secretary. In it, he expressed the opinion that Council assumed the powers of the A.G.M., denying members the right to make nominations. Both Prof. Duckett and Dr Longton pointed out that this was not the case, as events this year had shown. If two different nominations for any particular post had been received, an election would have been held. Dr Longton and Prof. Duckett stressed that outside nominations for Officers and Elected Members of Council are formally invited each year in the *Bulletin*. It was agreed that the subject would be discussed in Council.
- b) **Corresponding Foreign Member:** Prof. Seaward's suggestion, that such an overseas member would enable the Society to get the feel of other societies' meetings, was met with enthusiasm. The possibility would be discussed in Council. Indeed, Prof. Duckett said Prof. B.J. Crandall-Stotler, current President of the

American Bryological and Lichenological Society, was taking notes and would be reporting on our procedures to the sister society in N. America.

- c) **Census Catalogue:** Prof. P.W. Richards had proposed that in any new edition details of first British records might be included for each species.
- d) **Recording Activities:** Dr Bates reminded members that 30 November would be the deadline for the receipt of data relating to the epiphyte monitoring scheme. He also hoped to launch a project to compile a bryophyte flora for Waterford and Wexford. Anyone interested was invited to attend an informal meeting that evening.
- e) **Tropical Bryology Group:** Mr B.J. O'Shea announced that this group would meet immediately after the A.G.M.
- f) **B.B.S. Bulletin:** Mr Hurr encouraged members to circulate their copies of the *Bulletin* among friends as an effective means of persuading potential bryologists to become active ones. In response to a question from Dr Edwards, it was confirmed that the *Bulletin* is not sent to institutional subscribers to *J. Bryol.*
- g) **Advertising:** Dr Stanley asked whether Council might consider the possibility of advertising membership in suitable popular magazines, but Prof. Seaward and Dr Edwards said it should be kept in perspective, quoting examples of £500 and £150, respectively, for quite modest advertisements. Prof. Richards' suggestion of obtaining free advertising on an exchange basis would be discussed.

In drawing the meeting to a close, Prof. Duckett said he had been saddened by the passing of old friends during his Presidency, for the B.B.S. was a society of friends without barriers between amateur and professional, expert and beginner, or in terms of age, sex or nationality. He thanked Officers and other Council members for their help and support, and briefly reviewed developments within the Society. He was pleased with the increase in local meetings, which he referred to as currently having four epicentres. He regarded it as a very healthy development conducive to attracting more people into the Society. The new publisher introduced during his term of office was enabling the B.B.S. to produce a *Journal* of even Handboohigher quality and yet more cheaply than formerly, and this he saw as a sound asset that would stand us in good stead as we approached the Centenary. As he handed the gavel to his successor, Dr Longton, Prof. Duckett said he had greatly enjoyed his term of office. In response, Dr Longton thanked him for the energetic and effective way in which he had conducted the Society's business, and this was met by spontaneous applause.

Both Prof. Duckett and Mrs J.A. Paton spoke for all in thanking Mr M.G. Longman for the excellent arrangements he had made in Ripon.

There being no other business, the meeting adjourned at 5.36 p.m.

M.E. Newton, Hon. General Secretary
September 1993

FUTURE MEETINGS OF THE SOCIETY

Members are reminded to read the BBS Safety Code, which is published in *Bulletin* 43 and is available from local secretaries for inspection during BBS meetings.

SUMMER FIELD MEETING 1994, Western Ireland, 13 - 27 July.

Local Secretary: Donal Synnott, Botany Section, National Botanic Gardens, Glasnevin, Dublin 9, Ireland. Tel. (from Britain): 010 353 1374 388.

See last issue of the *Bulletin* for details.

ANNUAL GENERAL MEETING AND SYMPOSIUM MEETING 1994, Preston Montford, Shropshire, 23 - 25 September.

Local Secretary: Dr. Martha Newton, c/o Botany Department, Liverpool Museum, William Brown Street, Liverpool, L3 8EN.

This is a meeting to celebrate both the 80th birthday in May of Dr Eric Watson and the 50th anniversary of the Field Studies Council's formation in December 1943. It is fitting that both should be celebrated simultaneously, for so many B.B.S. members owe their initial progress in bryology to Dr Watson's book on *British Mosses and Liverworts* and to specialist courses run by the Field Studies Council. There will be a celebratory dinner in honour of Dr Watson, and there will also be a full programme of papers, as well as ample scope for exhibits (but please let the local secretary know what space is required) and discussion.

Speakers will be as follows:

Mr Ben Averis (Traprain, Haddington): 'Surveys of Atlantic bryophytes in Scottish woodlands.'

Dr Flora Alfano (Universita di Napoli): 'Allelopathic effects of the lichen *Cladonia foliacea* on protonemal development in some Mediterranean macchia mosses.'

Mr Brian O'Shea (London): 'The BBS expedition to Mt. Mulanje, Malawi, 1991: progress to date.'

Prof. Fred Sack (John Innes Institute, on sabbatical from Ohio State University): 'The bigger they are, the harder they fall: gravity and mosses.'

Dr Tony Smith (University of Wales, Bangor): '*Hypnum cupressiforme* in the British Isles.'

Mr Gavin Stark (JNCC, Peterborough): 'The Lower Plant Biodiversity Register.'

Dr Eric Watson (Reading): 'Sixty years in bryology.'

The ANNUAL GENERAL MEETING will be held at 4.30 p.m. on Saturday, 24 September, 1994, at Preston Montford Field Centre, Montford Bridge, near Shrewsbury.

AGENDA

1. Apologies for absence.
2. Minutes of the last A.G.M., Ripon, 1993 (see pp. 13-16 of this *Bulletin*).
3. Matters arising.
4. Reports of Officers for 1993 (see pp. 2-13 of this *Bulletin*).
5. Report from Council.

6. Election of Officers (see p. 27 of this *Bulletin*).
 - a) General Secretary.
 - b) Journal Editor.
 - c) Meetings Secretary.
 - d) Reading Circle Secretary.
 - e) Recording Secretary.
7. Election of Elected Members of Council (see p. 27 of this *Bulletin*).
8. Place and date of next Annual General Meeting.
9. Other future meetings.
10. Any other business.

Shropshire is a county of splendid habitat diversity, and this is reflected in its bryophyte flora. An opportunity to explore will be presented during the Sunday field excursion, which is currently being planned with the help of local experts.

Preston Montford is about four miles west of Shrewsbury, which is served by a main line railway station. There is a bus link to Montford Bridge, and details are available on request. A block of rooms has been reserved for our accommodation. It is hoped that most people will be prepared to share twin-bedded rooms, as this is reflected in the price (B. & B. £13.72 per person; £58 for the whole weekend from Friday evening, including the celebratory dinner), although single rooms are available on payment of a supplement of £15. Booking forms are available from the Local Secretary, and early booking is recommended. Final figures will be forwarded to the Centre on 20 August!

BRYOLOGICAL WORKSHOP 1994, Bristol, 19 - 20 November.

Local Secretary: Dr Dennis Brown, Department of Botany, The University, Bristol, BS8 1UG. Tel.: 0272 303737.

This weekend workshop will be devoted to examining the techniques employed in growing bryophytes. Dr Harold Whitehouse and Mr Michael Fletcher have kindly agreed to lead the meeting, which will probably consist of a day in the field, collecting material on Saturday, and a laboratory session on Sunday.

SPRING FIELD MEETING 1995, Ambleside, Cumbria, 5 - 12 April.

Local Secretary: Peter Bullard. Work address: Cumbria Wildlife Trust, Cumbria, LA22 0BU. Tel.: 05394 32476. Home address: 36 Castle Garth, Kendal, Cumbria LA9 7AT. Tel.: 0539 732699.

Cumbria has not been visited by the Society for some time, and is indeed a surprisingly poorly known part of the country for bryophytes. This meeting will look at little-known sites as well as some of the classic localities, in an effort to remedy the situation. There should be plenty of scope for interesting and new finds, though excursions to higher ground will depend largely on the weather.

SUMMER FIELD MEETING 1995 (I), Tatra Mountains, Slovakia, August 13-24.

Local Secretary: Dr Rudolf Soltés, Research Station of the Tatra National Park, 05960 Tatr. Lomnica, Slovakia. Fax: 010 42 969967958.

Dr Soltés has kindly agreed to host the BBS for ten days in August for this exciting central European meeting. The Tatras are the highest of the Carpathian mountains, reaching a maximum altitude of 2655 m. Most of the area is granitic, but there are also places where limestone and dolomite predominate. Vegetation ranges from coniferous forest at lower altitudes to dwarf pine forest, alpine meadows and a true alpine zone higher up the mountains. The programme will concentrate on characteristic Carpathian bryophyte habitats, which will have species that are likely to be unfamiliar to British bryologists. For example, *Anastrophyllum michauxii*, *Bucegia romanica*, *Metaneckera menziesii*, *Ochyraea tatrensis*, *Paludella squarrosa*, etc.

The Research Station can provide microscope facilities. For further details on the meeting, either contact Dr Soltés directly, or write to Nick Hodgetts, Joint Nature Conservation Committee, Monkstone House, City Road, Peterborough, PE1 1JY (Tel.: 0733 62626).

SUMMER FIELD MEETING 1995 (II), Durham/Northumberland, July 26 - August 2.

Local Secretary: Stuart Hedley, English Nature, Archbold House, Archbold Terrace, Newcastle-upon-Tyne, NE2 1EG. Tel.: 091 281 6316.

This year, an alternative summer meeting is being arranged in Britain for those who either cannot or do not want to go to the Tatras. Of course, anyone who wishes to attend both meetings is more than welcome to do so. North-eastern England has been under-worked in recent years. Although there have been many good records from Upper Teesdale, there are few recent records, and the status of many interesting species in the area needs to be elucidated. Elsewhere, there are many potentially interesting places to visit in the north Pennines and Border country. Contact local secretary for further details. More information will appear in the next *Bulletin*.

ANNUAL GENERAL MEETING AND SYMPOSIUM MEETING 1995: University of East Anglia, Norwich.

Local Secretary: Richard Fisk, 1 Paradise Row, Ringsfield, Beccles, Suffolk, NR34 8LQ. Further details in next *Bulletin*.

SPRING MEETING 1996, Dolgellau, Gwynedd.

Local Secretary: Alan Hale, Countryside Council for Wales, Plas Gogerddan, Aberystwyth, Dyfed, SY23 3EB. Tel.: 0970 828551.

This meeting is taking place at the same venue as the last meeting in 1922 of Sections I and II of the Moss Exchange Club during which it was decided to amalgamate the two Sections and form the British Bryological Society. The meeting will be part of the Centenary year celebrations. Further details in future issues of the *Bulletin*.

BBS CENTENARY SYMPOSIUM 1996, University of Glasgow, 4 - 8 August.

Local Secretary: Dr. J. H. Dickson, Department of Botany, The University, Glasgow, G12 8QQ. Tel: 041 339 8855.

Entitled 'Innovations in bryophyte research', this important and forward-looking symposium will include contributions from those at the forefront of current bryophyte research, over a wide range of subject areas. Contributions are to be invited shortly.

SUMMER FIELD MEETING 1996, Scotland, Mid-August.

The BBS summer field meeting will follow the Glasgow symposium, and will consist of a week in the west of Scotland and a week in the central Highlands. Further details will appear in future issues of the *Bulletin*.

LOCAL MEETINGS PROGRAMME, 1994-95

BRITISH BRYOLOGICAL SOCIETY & NORTH WESTERN NATURALISTS' UNION (North West Group)

Saturday 16 July: NORTHWICH LIME BEDS. Mr J. Holness. 11.00 a.m. Marbury Country Park, SJ 651764.

Saturday 20 August: RAMSLEY MOOR. Messrs N. & A. Bamforth. 11.00 a.m. Shillito Wood car-park, SK 295748.

Saturday 24 September: NORTH WALES AREA. Mr G. Battershall. 11.00 a.m. Llandudno Junction Station car-park, SH 794779.

Saturday 15 October: RIVER BROCK. Dr M.E. Newton. 11.00 a.m. Roadside parking as available, SD 566451.

Saturday 5 November: PRIESTCLIFFE LEES (DWT). Mr A.V. Smith. 11.00 a.m. Miller's Dale Station car-park, SK 137733.

Saturday 3 December: LIMEKILN FARM QUARRY. Mr L. Johnson. 11.00 a.m. Cross-roads near Bay Tree Farm, SJ 857595.

BRING FOOD & DRINK AS REQUIRED AND BE ADEQUATELY CLOTHED. PLEASE CHECK WITH LEADER OR SECTION SECRETARY BEFOREHAND.

A.V. Smith 0663-744499 (BBS): E.P. McCann 061-962-1226 (NWNJU)

SOUTHERN GROUP

Sunday 9 October 1994: ISLE OF WIGHT, v.-c. 10. Mrs L. Snow. A continuation of the survey of Great Wood. Meet at Shanklin Railway Station. If you intend to attend please let me know prior to your visit so we can arrange transport to the wood.

Sunday 26 November 1994: SOUTH WILTS, v.-c. 8. R.C. Stern. Grid Ref. SU 247219. To survey Glazier's and Bagfield Copses, near Landford (2.5 miles w. of Hants county boundary), part of SSSI. Meet N. side of A36 (on old road by the turning to Whiteparish).

Sunday 22 January 1995: WEST SUSSEX, v.-c.13. H.W. Matcham. Grid Ref. SU 897181. Park by the Church, then a short walk to try to refind *Antitrichia curtipendula*.

Saturday 4 March 1995: EAST SUSSEX, v.-c. 14. D.T. Streeter. Grid Ref. TQ 462287. Park in Ellison's car-park, north side of road, near a pond, to try to re-discover *Diphyscium foliosum*.

OTHER BRYOLOGICAL MEETINGS, 1994

July 29 - August 5, 1994: MOSSES AND LIVERWORTS. Tutor: Dr Martha Newton, Malham Tarn Field Centre, Settle, North Yorkshire, BD24 9PU. Offering individual guidance at all levels. Details from the Warden, Mr K. Iball.

August 5-12, 1994: MOSSES AND LIVERWORTS. Tutor: Dr Martha Newton, Preston Montford Field Centre, Montford Bridge, Shrewsbury, SY4 1DX. Offering individual guidance at all levels. Details from the Warden, Mr J.A. Bayley.

August 15-19, 1994: LAKELAND MOSSES AND LIVERWORTS. Tutor: Dr Martha Newton, Blencathra Field Centre, Threlkeld, Keswick, Cumbria, CA12 4BR. Offering individual guidance at all levels. Details from the Warden, Dr R. Lucas.

August 22-26, 1994: MOSSES AND LIVERWORTS OF ROCKS AND RIVERS. Tutor: Dr Martha Newton, Rhyd-y-creuau, Drapers' Field Centre, Betws-y-coed, Gwynedd, LL24 0HB. Offering individual guidance at all levels. Details from the Warden, Mr J. Ellis.

August 27 - September 3, 1994: MOSSES AND LIVERWORTS. Tutor: Dr Martha Newton, Kindrogan Field Centre, Enochdu, Blairgowrie, Perthshire, PH10 7PG. Offering individual guidance at all levels. Details from the Warden, Dr A. Lavery.

REPORTS OF LOCAL MEETINGS

Southern Group

The penultimate meeting of the Southern Group programme for 1993/94 was held at Plaitford Common, South Wiltshire, v.-c. 8. The aim was to record for the forthcoming bryophyte flora of South Wiltshire which is being prepared by R.C. Stern. Owing to the high rainfall of recent months we found that much of the Common was under water.

However, we did find *Hypnum imponens* in quantity, and surprisingly *Nardia scalaris* was a new v.-c. record. *Dicranum spurium* previously recorded from here was disappointingly not refound. The bryophilous lichen *Mniacea jungermanniae* was found in quantity growing on *Cephalozia bicuspidata*; this overlooked species was a new v.-c. record. After lunch Ken Adams was left alone in Pipers Copse near the Rufus Stone (v.-c. 11) to try to re-find *Zygodon forsteri* in new locations. In this he was successful, one 'new' tree being found. The remainder of the party continued recording in v.-c. 8. Notable was the occurrence of *Bartramia pomiformis* in two localities.

The final meeting of the year was held at Highclere Estate, North Hampshire, v.-c. 11 by kind permission of Lord Caernarvon. Recording continued for the forthcoming bryophyte flora of North Hampshire which is being prepared by A.C. Crundwell, a total of sixteen liverworts and ninety mosses being recorded, a fine total for such a limited area. Notable species recorded include *Plagiothecium laetum*, only the third record from North Hampshire, *Brachythecium populeum*, *Eurhynchium speciosum*, *Pleuridium subulatum* and *Tortula marginata*.

HOWARD MATCHAM

South-east Group

On 23 April the SE Group met jointly with the British Lichen Society. We explored two different habitats in Kent:

Pembury Old Church, an old churchyard with both limestone and sandstone graves;

Tudeley Woods, a fairly wet chestnut coppice-with-oak standards.

This first joint meeting was something of an experiment. Our aims were to see if we could learn more about bryophyte-lichen communities in these habitats and secondly to bring together the experience and skills of bryologists and lichenologists in a common project.

It is proper to report that these aims were not entirely met though useful recording was done. In both sites bryologists and lichenologists tended to work separately and we learned little beyond the well-known associations such as *Bacidia sabuletorum* growing on *Tortula muralis*. Nevertheless those present thought that the experiment was worthwhile and should be repeated. One lesson learned was that the site should be small and carefully chosen as likely to contain bryophytes and lichens growing together.

ROY HURR

RECORDING MATTERS 8

Regional Recorders

The following is a list of the Regional Recorders for vice-counties in Britain and Ireland. Completed recording cards should be sent to the appropriate Recorder. If a vice-county is not listed the records should be sent directly to the Recording Secretary (address below) from whom new recording cards may also be obtained.

- 1,2:** Miss R.J. Murphy, Shang-ri-la, Reskadinnick, Camborne, Cornwall, TR14 0BH
3,4: Mr M. Pool, 91 Warbro Road, Babbacombe, Torquay, Devon, TQ1 3PS
6,33,34: Mr P. Martin, The Archway, The Green, Frampton-on-Severn, Gloucester, GL2 7DY
7: Mr R.D. Porley, English Nature, Foxhold House, Thornford Road, Crookham Common, Newbury, Berkshire, RG15 8EL
8,11: Mr R.C. Stern, Botany Bay, Main Road, Fishbourne, Chichester, West Sussex, PO18 8AX
9: Dr M.O. Hill, Monks Wood Experimental Station, Abbots Ripton, Huntingdon, PE17 2LS
10: Mrs L. Snow, Ein Shemer, Upper Hyde Farm Road, Shanklin, Isle of Wight, PO37 7PS
12: Mr A.C. Crundwell, Acorn Cottage, 12 Kay Crescent, Headley Down, Hampshire, GU35 8AH
13,14: Mr H.W. Matcham 21 Temple Bar, Strettington, nr Chichester, West Sussex, PO18 0LB
15: Mr M.C. Watling, 13 Addington Street, Margate, Kent, CT9 1PN
16: Mr E.R. Hurr, 6 The Woodlands, Chelsfield, Orpington, Kent, BR6 6HL
17: Mr P.G. Adams, 29 Cox Lane, Chessington, Surrey, KT9 1DF
18,19,21: Dr K.J. Adams, 63 Wroths Path, Baldwins Hill, Loughton, Essex, IG10 1SH
20: Mr G. Smith, 59 Tippet Court, Stevenage, Hertfordshire, SG1 1XR
22: Dr J.W. Bates, Imperial College at Silwood Park, Ascot, Berkshire, SL5 7PY
23: Mr G. Bloom, 15 Tatham Road, Abingdon, Oxfordshire, OX14 1QB

- 24: Dr S.V. O'Leary, J.J. Thomson Physical Laboratory, P.O. Box 220, Whiteknights, Reading, RG6 2AF
- 25,26: Mr R.J. Fisk, 1 Paradise Row, Ringsfield, Beccles, Suffolk, NR34 8LQ
- 27,28: Mr R. Stevenson, 111 Wootton Road, Kings Lynn, Norfolk, PE30 4DJ
- 29: Dr H.L.K. Whitehouse, Botany School, Downing Street, Cambridge, CB2 3EA
- 30: Mr A.R. Outen, 15 Manor Close, Clifton, Shefford, Bedfordshire, SG17 5EJ
- 31,76,81-88,99: Mr N.G. Hodgetts, Joint Nature Conservation Committee, Monkstone House, City Road, Peterborough, PE1 1JY
- 32,60: Mr M.J. Wigginton, 36 Big Green, Warmington, Oundle, PE8 6TU
- 35,41,44: A.R. Perry, Department of Botany, National Museum of Wales, Cardiff, CF1 3NP
- 36: Mr P.J. Port, Hollybush Cottage, Newton Lane, Kington, Hereford, HR5 3NG
- 38: Mr J.H. Field, 34 Wells Green Road, Solihull, West Midlands, B92 7PG
- 40: Mr R. Shoubridge, 8 Mary Elizabeth Road, Ludlow, Shropshire, SY8 1LW
- 42,43,47: R.G. Woods, Countryside Council for Wales, 3rd Floor, The Gwalia, Ithon Road, Llandrindod Wells, Powys, LD1 6AA
- 45: Dr P.M. Rhind, Countryside Council for Wales, Directorate of Science & Policy Development, Plas Penrhos, Bangor, Gwynedd, LL57 2LQ
- 46: Mr A. Hale, 26 Garth Dinas, Penparcau, Aberystwyth, Dyfed, SY23 3RZ
- 48-52: T.H. Blackstock, Countryside Council for Wales, Directorate of Science & Policy Development, Plas Penrhos, Bangor, Gwynedd, LL57 2LQ
- 53-54: Professor M.R.D. Seaward, School of Environmental Science, University of Bradford, Bradford, BD7 1DP
- 55: D.W. Ballard, 84 Leicester Road, Groby, Leicester, LE6 0DN
- 57,61-65: T.L. Blockeel, 9 Ashfurlong Close, Dore, Sheffield, S17 3NN
- 58: A.V. Smith, 1 Carr Meadow Cottages, Glossop Road, Little Hayfield, via Stockport, Cheshire, SK12 5NR
- 66: Revd G.G. Graham, 3 The Willows, Bishop Auckland, Co. Durham, DL14 7HH
- 69,70: F.J. Roberts, Eden Croft, Wetheral Pasture, Carlisle, Cumbria, CA4 8HU
- 72-74: Dr C. Miles, Braeside, Boreland, Lockerbie, Dumfries, DG11 2LL
- 79-80: R.W.M. Corner, Hawthorn Hill, 36 Wordsworth Street, Penrith, Cumbria, CA11 7QZ
- 81: D.G. Long, Royal Botanic Garden, Edinburgh, EH3 5LR
- 82-84: Dr D.F. Chamberlain, Royal Botanic Garden, Edinburgh, EH3 5LR
- 97,98,105: G.P. Rothero, Stronlonag, Glenmassan, By Dunoon, Argyll, PA23 8RA
- 100: Mrs K.M. Cocking, 4 Ashwood Crescent, Marple, Stockport, Cheshire, SK6 6LS
- 101-104,110: M.F.V. Corley, Pucketty Farm Cottage, Faringdon, Oxfordshire, SN7 8JP

Channel Islands: C.D. Preston, Monks Wood Experimental Station, Abbots Ripton, Huntingdon, PE17 2LS

Ireland:

- H1-H7, H9-H35:** D.M. Synnott, National Botanic Gardens, Glasnevin, Dublin 9, Ireland
- H8:** Elinor Wiltshire, 62 Carroll House, Craven Terrace, Lancaster Gate, London, W2 3PR
- H36-40:** Mr P. Hackney, Ulster Museum, Botanic Gardens Belfast, Belfast, BT9 5AB

M.C. Robinson, A.G. Payne and N.D. Redgate have retired as recorders for, v.-cs 89, 96 and 107-109, respectively. We thank them for their service. Replacement recorders are sought for these and other vacant vice-counties.

Bryophyte recording in Buckinghamshire (vice-county 24)

Seán O'Leary, our Regional Recorder for v.-c. 24, writes a timely account of his experiences in the vice-county and requests further records.

When I was asked to become recorder for Buckinghamshire four years ago, I assumed that I would inherit a weighty document, compiled over generations, detailing the whereabouts of bryological niceties in the region, and listing, perhaps on a 10-km square basis, all records currently known. This just shows how naive I was.

I therefore decided to help the next recorder, by compiling my own version of such a document. I don't like to call it a 'flora' – it sounds a bit pretentious coming from an amateur like myself, so I'm calling it a 'Recorder's file'.

I've started going through the Atlas, compiling a card for each 10-km square in Bucks with all known bryophyte records from this source, so that I can identify 'weak-spots' where little recording has been done. Corley & Hill (1981) and the *Bulletin* have, of course, been useful guides to new vice-county records.

I have not been able to trace any published bryophyte flora of Bucks and indeed there is none mentioned in Taylor's (1954) and Pearman's (1979) bibliographies. However, E.R.B. Little, between 1962 and 1967, did a considerable amount of work in the area, obtaining many hundreds of records, including over twenty new vice-county records, and he has deposited a substantial herbarium with the county museum in Aylesbury. He has kindly given me his day-books and a partially completed flora, which now forms the basis of my file. Alan Crundwell, Rod Stern and Fred Ambrose have also kindly sent me information.

I started recording in Bucks myself this year, and hope to work through the county on a 10-km square basis. I have found three new vice-county records so far.

I would be grateful if anyone recording in Bucks would let me know, and send me information about current (or old) records from the area. Try to be as specific as possible about grid references, as the county boundaries have changed in some areas.

I hope soon that I will have a Recorder's file which will be worth handing on to my successor.

References

- Corley, M.F.V. & Hill, M.O. (1981).** *Distribution of Bryophytes in the British Isles: a Census Catalogue of their Occurrence in Vice-Counties*. Cardiff: British Bryological Society.
- Pearman, M.A. (1979).** British bryophyte floras and check-lists, 1954-1878. *J. Bryol.* **10**: 561-573.
- Taylor, F.J. (1954).** Bryophyte county floras I. The Channel Islands, England and Wales. *Trans. Br. bryol. Soc.* **2**: 446-457.

Dr S.V. O'Leary, J.J. Thompson Physical Laboratory, P.O. Box 220, Whiteknights, Reading, RG6 2AF

Survey of Regional Recorders

It is now four years since the network of Regional Recorders was established. To investigate the level of bryological recording in Britain and Ireland all Regional Recorders have been circulated with a questionnaire asking for some basic details about their recording activities and those of other local bryologists. A resumé of their replies will be presented in the next issue of this column. Regional Recorders have also been offered copies of the records held at the Biological Records Centre for their region. These will be sent out later during 1994.

Dr Jeff Bates, Department of Biology, Imperial College at Silwood Park, Ascot, Berkshire, SL5 7PY

BRYOPHYTE PROFILES

Journal of Bryology will be publishing a series of occasional papers under the heading *Bryophyte Profiles*. Each article will be a detailed study of the biology of a different bryophyte species along similar lines to the 'Biological Flora of the British Isles' series for vascular plants which is published in *Journal of Ecology*. *Bryophyte Profiles* will cover bryophytes from any part of the world. The aim is to present a growing series of 'example bryophyte biologies' rather than a comprehensive flora which, in any case, would be unachievable. It is hoped that the enterprise will promote studies of the basic biology of individual bryophyte species and provide a useful database for bryologists in all countries. It should also be possible for amateur as well as professional bryologists to contribute.

We hope to publish an average of about one account per part of the *Journal* once the series is established. Each paper should deal with a single liverwort, hornwort or moss species. It should contain substantive new information and review existing knowledge. The papers should be detailed, with maps, tables and figures, but not of excessive length – about 10-15 printed pages. The following checklist of topics should be employed as a framework and guide to the headings and subheadings but some flexibility will be allowed at first as we evolve a workable format.

Recognition – description, illustrations of gametophyte and sporophyte, taxonomic setting, infraspecific taxa, separation from similar species.

Distribution – maps and discussion of distribution in world and author's continent.

Life Cycle – sexual reproduction (including chromosomes and fertilization), sporophyte biology, spores, protonema, gametophore development, vegetative spread.

Ecology – habitats, communities (past and present), life-form, growth pattern, population dynamics, relationships with other organisms.

Physiology – carbon assimilation, water relations, mineral relations, biochemistry.

Applied Biology – pollution, conservation, human affairs.

For a very few species (e.g. *Funaria hygrometrica* or *Hylocomium splendens*) it would be possible to write something about most of these topics from existing literature. For the majority, however, there will be little available data under most headings. In these cases part of the author's job will be to point out which are the most important lacunae as well as collating information from the literature. It is expected that authors will undertake personal investigations into topics like regeneration from spores or vegetative fragments, existence of rhizoidal tubers and protonemal gemmae, frequency and timing of fruiting, habitat types, communities, field growth rates and patterns, population sizes and fluctuations and even simple desiccation-tolerance experiments.

Those wishing to contribute a paper should contact me at an early stage to register their interest. It would also be helpful if prospective authors could provide a brief (1 page) summary of the work they intend to undertake with an indication of the timescale. All papers will be subject to the usual review procedure of the *Journal*.

Dr Jeff Bates, Editor,
Imperial College at Silwood Park, Ascot, Berkshire, SL5 7PY, U.K.

B.B.S. PHOTOGRAPHIC ARCHIVE

The archive currently contains photographs of 124 bryologists (varieties for a particular person indicated in parentheses); those indicated by an asterisk are represented by a poor and/or unrepresentative photograph.

*Adams, K.J.	Albrecht, J.H.	Allorge, P.
*Allorge, V. (2)	Appleyard, J. (5)	Armitage, E.
Bacon, A.	Banwell, A.D.	*Barnes, R.
*Bedford, C.M.	Binstead, C.H.	Bloom, G.
Boros, A. (4)	Bradshaw, D.B.	Branson, F.E.
Braithwaite, R.	Bryce, D.M.	*Buch, H.
Burrell, W.H.	Castell, C.P.	Caulfeild-Browne, P.
Cocking, K.M.	Coker, P.D. (2)	Crosland, F.
Crundwell, A.C. (5)	*Culmann, P.F.	Cuynet, P.
Dalby, D.H. (3)	Dickson, J.H. (2)	Dixon, H.N.
Duncan J.B. (4)	Duncan, U.K. (3)	Else, J.
Evans, A.W.	Fitzgerald, J.W. (4)	Fitzgerald, R.D. (5)
*Gardiner, J.C.	Gepp, A.	Gier, L.J.
Gradstein, S.R.	*Greene, S.W.	Grolle, R. (2)
*Groves, J.	Gyorffy, I. (2)	Hall, R.H.
Hattori, S.	Hegewald, E.	*Hill, M.O.
Holmen, K.	Ingham, W.	Irwin, A.M.
*Jackett, R.	*Jackson, A.B.	Jameson, H.G.
Jones, D.A. (3)	Jones, E.W. (10)	Jovet-Ast, S.
Knight, H.H. (2)	Lee, J.R.	Lewis, R.
Lid, J. (2)	Lobley, E.M. (7)	*Long, D.A.
*Long, P.	*Macvicar, S.M.	*Marquand, C.V.B.
Megaw, W.R.	*Milson, F.E.	Mitten, W.
Murray, J.	Nicholson, W.E.	Noel, E.F.
Norkett, A.H. (3)	Nyholm, E.	Parker, R.E.
Paton, J.A. (2)	Pearman, M.A.	Pegler, L.H.
Perry A.R.	Peterken, J.H.G. (3)	Pettifer, A.J. (8)
Philippi, G.	Priestley, J.H.	Richards, P.W. (6)
Rilstone, F.	*Roivainen, H.	Rose, F. (6)
*Sandwith, C.	*Saunders, A.M.	Scott, L.I.
Seaward, M.R.D.	Sharp, A.J.	Shaw, G.A. (2)
Shaw, G.E.	Sherrin, W.R. (4)	*Side, A.G.
Sinclair, J.	Slater, M.B.	Sowter, F.A. (2)
Stephenson, G.	Størmer, P.S. (2)	Sutton, A.
Szweykowski, J.	Thomson, J.S.	Thorrington, F.W.
Townsend, C.C.	Trotter, L.B.C. (3)	Vaarama, A.
Wade, A.E.	Wallace, E.C. (38)	Walsh, H.
Walton, J.	*Wanstall, P.J.	Warburg, E.F. (2)
Waterfield, R.	Watson, E.V.	Watson, W.
Welch, W.	West, W.	Wheldon, J.A.
Wigglesworth, G. (3)	Wilson, A.	Wright, H. (2)
*Young, W.		

There is also a large number (202) of group photographs (the individual bryologists thereon have yet to be fully evaluated in terms of the above inventory) mainly of BBS field meetings held in 1922, 1924, 1926, 1928, 1930-39, 1947, 1949-51, 1953, 1956, 1958, 1967, 1974, 1975, 1979-83, 1986, 1988-93, and 180 negatives, an album (62 photographs of BBS meetings 1922-1938), 10 lantern plates and 18 colour slides from the E.C. Wallace collection.

As can be seen from the above list, there is considerable scope for BBS members to contribute photographs of themselves and/or other bryologists to the Archive. Each photograph, accompanied by the name(s) of the person(s) portrayed, and where possible by the date when taken (and location for field meetings, etc.) and the name of the photographer, should be forwarded to the Photographic Archivist, Prof. Seaward. All donations will be duly acknowledged.

Professor Mark Seaward, Department of Environmental Science, University of Bradford, Bradford, BD7 1DP

ELECTION OF OFFICERS AND ELECTED MEMBERS OF COUNCIL

Dr M.A.S. Burton has signified her wish to retire from the office of Reading Circle Secretary at the end of the year. The terms of four other Officers, the General Secretary, Journal Editor, Meetings Secretary and Recording Secretary, expire at the end of 1994, and their present incumbents are eligible for re-election. The three Elected Members of Council who retire at the end of 1994, Mr C. Curtis, Mr R.J. Fisk and Mr C.D. Preston, are not eligible for re-election in this capacity until two years have elapsed. Members are invited to submit nominations for Officers and Elected Members, sending them, in an envelope marked PRIVATE, to the General Secretary of the B.B.S., Dr M.E. Newton, c/o Botany Department, Liverpool Museum, William Brown Street, Liverpool, L3 8EN, to arrive no later than 27 August, 1994. A nomination must not be made without the consent of the person it is wished to nominate. If elections are needed, they will be held at the A.G.M. at Preston Montford Field Centre, Montford Bridge, nr Shrewsbury, on 24 September, 1994.

THE THOMAS PALGRAVE ARCHIVE AT LIVERPOOL MUSEUM

A recent enquiry sent to Liverpool Museum by the Royal Commission on Historic Manuscripts prompted a survey of our 19th century correspondence relating to several cryptogamic botanists. This confirmed that the National Museums and Galleries on Merseyside have a large collection of letters, mainly on bryological topics, which were sent to the Liverpool solicitor and bryologist Thomas Palgrave (1804-1891).

Palgrave was born in Norfolk (Desmond, 1994), and was doubly fortunate in having Dawson Turner as his uncle and William Hooker as his cousin. At the age of sixteen he already had a collection which included all but the rarest species of British bryophytes. In later life, having pursued a successful career as a municipal lawyer in Liverpool, he became friendly with Frederick Price Marrat and around 1856 he again took up the study of bryophytes (Lee,

1920-21). After Palgrave's death, Marrat acquired his herbarium and later presented it to LIV in 1896 (Stansfield, 1935).

Palgrave's herbarium is one of the foundation collections of the Liverpool Museum bryophytes herbarium (Edmondson & Iles, 1988). It includes a set of W.P. Schimper's 'Pugillus Muscorum Europaeorum' (1865) which was sold at a price of £4 to a distinguished list of mainly British subscribers. They included Charles Babington (Cambridge), Charles Bailey (Manchester), John H. Balfour (Edinburgh), Joseph D. Hooker (Kew), David Moore (Glasnevin, Dublin), John B. Syme (London) and William Wilson (Warrington).

As well as the original letters received by Palgrave, the archive also includes typewritten transcripts of letters from Thomas Palgrave, Henry H. Higgins and Frederick M. Webb to William Wilson. The original letters are kept in the Natural History Museum, London; the transcripts were prepared by William A. Lee of Rock Ferry, Birkenhead and sent to William Laverock (then Keeper of Botany at LIV) in 1928.

List of authors of letters in the Palgrave Archive

Robert K. Greville, Edinburgh, 8.viii.1825 (1 letter).
Mr Hunt [George Edward Hunt], Bowdon, 4.vii.1865 (1 letter)
W. Palgrave Ker [nephew of T.P.], Batheaston, n.d. (1 letter)
John Whitehead, Dukinfield, n.d. (1 letter)
William Wilson, Warrington, 1856,1857,1858,1859,1860,1866,1867,1868,1869 (31 letters)
John B. Wood, Broughton, 1858, 1859, 1860, 1861, 1865, 1866 (20 letters)

References

- Desmond, R. (1994).** *Dictionary of British and Irish Botanists and Horticulturists*. London: Natural History Museum.
- Edmondson, J.R. & Y. Iles (1988).** The bryophyte collections at Liverpool (LIV). *Bull. Br. bryol. Soc.* 51:30-31
- Lee, A. (1920-21).** Frederick Price Marrat and Thomas Palgrave. *Lancs. & Ches. Naturalist*, 13: 47-56, 76-82, 127-129.
- Stansfield H. (1935).** The Palgrave collection, pp.26-27 in *Handbook and Guide to the Herbarium Collections in the Public Museums, Liverpool*.

John Edmondson, National Museum and Galleries on Merseyside, Liverpool Museum, William Brown Street, Liverpool, L3 8EN.

Erratum

Malcolm Watling has written to point out that a correction is needed for the identity of one of the mosses mentioned in the article in *Bulletin* 58, page 28. The *Tortula subulata* mentioned in paragraph 5 turned out to be *Hyophila stanfordensis* (confirmed by Tom Blockeel). Please make the necessary correction.

COARSE *BARTRAMIA* GROWING

MICHAEL V. FLETCHER

70 South Street, Reading, Berkshire, RG1 3RA

I have long grown four species as follows:

Bartramia pomiformis; from a shaded road bank, Pamber Forest, Berkshire, September 1968.

B. halleriana; revived from a BBS exchange packet in October 1968.

B. ithyphylla; soil in basic rock clefts near Sedbergh, Yorkshire, August 1968.

B. stricta; soil bank above Aguamansa, Tenerife, collected February 1973, given by Mr Champion, and cultivated May 1973, with several associates including *Anacolia webbii*, a striking moss superficially resembling a small *Breutelia*.

All these cultures are extant and I have grown no others of this genus. However, their history over so many years provides a cautionary tale.

All were on well-drained peat with small amounts of acid or neutral loam in rather low humidity and moderate shade until 1986, in my old cold frames. Though *B. halleriana* and *B. ithyphylla* were scarce in 1986, all four species survived the move to a new greenhouse. Being so persistent they enjoyed no special priority, and it was some years before all were replanted with any particular care. However, by 1992 the two scarcer species were down to two to three stunted shoots. As the late Stanley Greene once remarked to me, many reports of attempts to grow mosses were really reports of slow death. This was probably the slowest recorded death in the genus *Bartramia*.

B. pomiformis, though more plentiful, was also stunted. *B. stricta* grew, and still grows, in plastic or clay pots on a dry sunny top shelf, making dense blue-green mats which cover most of the available soil. In 1989 one was put on our south-facing verandah roof outside the toilet window, alongside a few other xerophytic mosses and some *Sedums* and *Sempervivums*. It persisted well for three years, but fell apart when an insect larva burrowed through it, and was put back in the greenhouse.

In 1992 I began to cover more mosses and hepatics in the greenhouse, even some xerophytes, with small plastic frames, at least for part of the year, or since 1993 with sheets of polythene simply draped over them. Oceanic hepatics were the first and most obvious beneficiaries of very high humidity. It was soon obvious that under such covered conditions 'mounted' cultures, with a thin layer of substrate glued to expanded polystyrene, could be kept as moist at will at almost any time of the year. Also, such cultures provided far better control of very small plants than pots of soil, a degree of control comparable to that of test-tube cultures. On such cultures, single shoots or even gemmae or protonemata can be observed and manipulated, and contaminants (algae and other bryophytes) are far less of a problem. Mounted cultures had hitherto been used only for a few bryophytes (notably epiphytes) but by 1983 were proving useful for a much wider range of plants.

In early 1983 *B. ithyphylla* and *B. halleriana* were scarce, *B. ithyphylla* critically so. Both were put in an enclosed frame. Mounted cultures were made of both, on peat with a sprinkling of acid loam. A second shoot of *B. halleriana* was on a similar substrate, but well-drained (i.e. in a clay pot). The cultures in deep shade on a cool floor among hepatics made little growth, but those on a warmer well-lit upper shelf grew more strongly. From June to August 1993 they were intermittently dry. They have otherwise been continuously moist. From one shoot of *B. halleriana*, by the end of the year, arose a group of seven, up to 4 cm tall. A mat of dark tomentum formed around the base, though no new shoots arose from it. Laid on their sides in March 1994, they are now forming side shoots, about 30 at present, up to 1 cm tall by late April.

B. ithyphylla, even scarcer, made only one shoot, 1 cm tall, in 1993, also matted with basal tomentum which was treated likewise, and now has increased to seven small shoots. Leaves pulled off in 1993 and scattered alongside have given rise to seven or eight new plants, attached directly to the leaves. None yet have full-sized leaves or any appreciable length of stem. Growth of both species has been noticeable throughout the year, except in December and January, and in the warmest few weeks of last summer.

B. pomiformis, as one 3.5 inch potful, was also put with these in an enclosed frame. Growth in spring 1993 was so extensive that it was moved to make room for other plants in greater need of propagation. Dried up and exposed to warm April sunshine, it stopped growing. A fringe of delicate young shoots on the sunward side, formed in constant high humidity in winter, was scorched. A few died. However, there was little overall damage.

This is a striking tale of mosses persisting for decades under conditions too dry for sustained growth, then responding well to moister growing conditions. That no *Bartramias* has yet fruited here, and that to propagate them needs active intervention by the disturbance of shoots or by the taking of leaf-cuttings, is not in itself an obstacle to successful cultivation. Many familiar garden plants would disappear without similar attention. However, Stanley Greene's comment should be remembered: to successfully propagate a plant involves more than keeping it alive indefinitely – it must also be reliably propagated and be able to recover from accidents and hardship.

REQUEST FOR MATERIAL

I would be grateful to anyone who is willing to send me material which is alive or has mature capsules (or better, both), of *Bryums* which appear to be in the *B. pallescens*, *B. intermedium*, *B. caespiticium* etc. group (the more puzzling and boring, the better), from these habitats: a) metal-toxic natural soil or rock; b) elite urban habitats (i.e. tarmac and walls in major city centres, especially away from the Home Counties; and c) habitats flushed or dripped upon by water draining off metal (corrugated iron, railings, road signs, wire netting, etc.).

Such plants seem frequent in Reading, and show much variation. A note on the source of metal contamination would be helpful. They should withstand gradual drying for postage purposes. I will refund postage.

M.V. Fletcher, 70 South Street, Reading, Berkshire, RG1 4RA (Tel.: 0734-571814).

RECENT RECORDS OF *SCAPANIA PALUDICOLA* LOESKE & K. MUELL. FROM WALES

by T.H. BLACKSTOCK

Countryside Council for Wales, Penrhos Road, Bangor, Gwynedd LL57 2LQ

Although long suspected, the presence of *Scapania paludicola* in Britain has only relatively recently been detected by Paton (1981). She reported gatherings of this species from Bodmin Moor in East Cornwall and Denton Moor in Mid-west Yorkshire, and suggested that it is very likely to be found more widely in the British Isles in lowland and submontane *Sphagnum* bogs. Two additional records, both from Wales, were available for the map of *S. paludicola* in the recent atlas of British liverworts (Hill *et al.*, 1991), in which D.G. Long noted that this circumboreal-continental species is inexplicably rare in Britain. *S. paludicola* has now been found at a further four Welsh localities, indicating that it has indeed been somewhat overlooked.

The six records of *S. paludicola* from Wales listed in Table 1 were all made on vegetation surveys, mostly undertaken by the Nature Conservancy Council and its successor the Countryside Council for Wales. In each case it was found very sparingly, and at four localities *S. paludicola* was only recorded while listing species present in quadrat samples.

Table 1. *Records of Scapania paludicola from Wales.*

-
1. Quadrat sample in narrow flush zone below neutral hay meadows, at 340 m. Caeau Cnwch a Ty'n-y-Graig SSSI, above the Elan valley, Brecon v.-c. 42 (SN 934637). T.H. Blackstock & D.P. Stevens, 1989.
 2. Quadrat sample in flushed *Molinia* pasture on gently sloping valley-side, at 220 m. Caeau Llwyn-gwrgan SSSI, Nant Gwnfel, Brecon v.-c. 42 (SN 939536). M.J.M. Yeo, 1991.
 3. In a stand of *Molinia* vegetation with wet depressions, at 170 m. North of the raised mire complex at Cors Caron NNR, Cardigan v.-c. 46 (SN 706666). A.D. Hale, 1993.
 4. Quadrat sample in flushed zone by basin mire, at 370 m. Fridd y Fawnog SSSI, near Mynydd Nodol, Meirioneth v.-c. 48 (SH 859387). M.J. Wigginton, 1979.
 5. Quadrat sample in gently-sloping acidic flush, at 190 m. Above the Afon Eden, near Pont y Gribble, Merioneth v.-c. 48 (SH 711303). J. Morley & S.L.N. Smith, 1993.
 6. In a stand of partially-drained peat bog, at 270 m. By the A5 trunk road, north-west of Cerrigydrudion, Denbigh v.-c. 50 (SH 859387). T.H. Blackstock & M.J.M. Yeo, 1987.
-

The habitats include gently-sloping hillside flushes, soligenous zones on the margins of saturated acidic mires and a partially drained acid bog, at altitudes between 170 and 340 m. It has not been found on intact raised mires or blanket bogs in Wales.

Within three of the quadrat samples, small patches or scattered stems of *S. paludicola* were present in the bryophyte layer in acidic flush vegetation grazed by sheep and cattle. The stands had a mixed open cover of grasses, sedges and rushes, with species such as *Agrostis canina*, *Anthoxanthum odoratum*, *Carex echinata*, *C. nigra*, *C. panicea*, *Juncus squarrosus*, *J. bulbosus*, *Molinia caerulea* and *Nardus stricta*, together with *Potentilla erecta*, *Viola palustris* and a few other associates. These overtop a *Sphagnum*-rich bryophyte carpet; *Sphagnum auriculatum* was present in each case and other species included *S. capillifolium*, *S. palustre*, *S. papillosum*, *S. recurvum* and *S. subnitens*. These flush assemblages are forms of the *Carex echinata*-*Sphagnum recurvum/auriculatum* mire community characterized in Rodwell (1991). The fourth sample was from a flushed *Molinia* pasture, in which *S. paludicola* was present among a small amount of *Sphagnum auriculatum* and other bryophytes such as *Aulacomnium palustre* and *Hylocomium splendens*.

The type of short sedge-*Sphagnum* flush vegetation in which *Scapania paludicola* has been found in Wales is widely distributed in the lowland-submontane zone in the uplands of north and west Britain. It is not the home of many rare or especially noteworthy mosses or liverworts, and is thus not particularly attractive vegetation for bryologists. Other *Scapania* species which frequent such habitats in Wales include *S. irrigua*, *S. nemorea* and *S. undulata*. Diligent searching may reveal further British records of *S. paludicola*. Only one of the six specimens collected in Wales is gemmiferous, with characteristic reddish brown gemmae, and well-grown plants are most readily distinguished from *S. irrigua* by the high proportion of leaves with short, strongly arcuate keels, and cordate to reniform antical lobes, often decurrent below the keel base. One of the Welsh gatherings is male, and the remainder lack gametangia; female plants have not been observed in Britain.

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NEW VICE-COUNTY RECORDS AND AMENDMENTS TO THE CENSUS CATALOGUES

All undated records are based on specimens collected in 1993; for specimens collected in earlier years the year of collection is given before the collector's name. Where the specimen bears a collector's number, this is given after the collector's name. The 10 km grid square is given with each locality, when known. All specimens are deposited in BBSUK, except where otherwise indicated. Numbers and nomenclature follow Corley & Hill, *Distribution of Bryophytes in the British Isles: a Census Catalogue of their Occurrence in Vice-counties* (1981).

HEPATICAE

D.G. LONG

- 1.1 *Anthoceros agrestis*, wheat stubble on clay soil, 110 m alt., near Auchenreoch Loch 25/87 (73), Whitehouse & Stanley.
- 3.2 *Sphaerocarpos texanus*, damp soil in allotment under Brussels Sprout stalks, 55 m alt., Midhurst 41/82 (13), Duckett, Matcham & Ligrone.
- 11.1 *Ricciocarpus natans*, in pond, Motcombe 31/82 (9), Bilès.
- 12.1 *Riccia cavernosa*, level stretch of damp muddy sand on W. margin of Lido Reservoir 51/08 (21), Wiltshire; exposed lake mud with *Littorella* and *Elatine*, The Gearagh, near Macroom (H3), 1983, McGough, conf. Paton.
- 12.4 *R. fluitans*, swampy fen beside lake near monastery NE of Collon O/08 (H31), N.F. Stewart; Smithborough N/53 (H32), 1956, M.P.H. Kertland, comm. N.F. Stewart.
- 12.7 *R. glauca*, on exposed soil at edge of stubble field on eastern edge of Clarepool Moss 33/43 (40), Newton.
- 12.8 *R. subbifurca*, on damp open oligotrophic soil within *Calluna vulgaris*-*Ulex minor* heathland, mixed with *R. sorocarpa* and *Archidium alternifolium*, 110 m alt., Greenham Common Airbase 41/56 (22), Porley, conf. Paton.
- 12.9 *R. crozalsii*, soil among rocks above end of South Harbour, Clear Island V/92 (H3), N.F. Stewart, R.J. Stewart & Fitzgerald, conf. Paton; new to Ireland.
- 13.1 *Metzgeria fruticulosa*, on Elder, 5 m alt., near Cloch Point, Gourock 26/27 (76), Blockeel 22/366.
- 16.1 *Cryptothallus mirabilis*, near surface of soil in decaying litter below *Betula pendula*, in scrub on N.-facing road cutting, 160 m alt., 3 km NE of Glyn Neath, S. side of A465 road 22/90 (41), Orange 9646.
- 17.4 *Riccardia palmata*, on decorticated Horse Chestnut logs, c. 100 m alt., Fryan's Hangar, Duncton near Petworth 41/91 (13), Matcham.
- 18.2 *Pellia neesiana*, in *Sphagnum* bog, Kenwood, Hampstead Heath 51/28 (21), Adams.
- 22.4 *Fossombronia husnotii*, in small quantity among *F. pusilla* var. *maritima* on thin soil among coastal rocks, above Ogof Nant, N. end of Bardsey Island 23/12 (49), Blackstock & Yeo.
- 22.5 *F. pusilla* var. *maritima*, with *F. husnotii* and *Scapania compacta* on thin soil among coastal rocks, above Ogof Nant, N. end of Bardsey Island 23/12 (49), Blackstock & Yeo; new to Wales.

- 22.8 *F. incurva*, on moist sandy soil in old silica pit on Carboniferous Limestone, 325 m alt., Bees Nest, Brassington 43/25 (57), Blockeel & Pearman 22/293.
- 26.4 *Barbilophozia atlantica*, on rock in oak/ash wood, 100 m alt., N. side of Cwm Einion 22/69 (46), Hale.
- 28.1 *Lophozia ventricosa* a var. *ventricosa*, with *Hypnum jutlandicum* between *Molinia* tussocks, 150 m alt., Graffham Common near Midhurst 41/91 (13), Matcham; amongst boulders at foot of waterfall, 210 m alt., Powerscourt Waterfall O/11 (H20), Long 23198.
- 29.2 *Leiocolea badensis*, wet ground in disused limestone quarry, Old Sulehay Pit 52/09 (32), Hodgetts 2771.
- 29.7 *Leiocolea rutheana*, base rich flush, 260 m alt., Tarn Moor E. of Orton 35/60 (69), 1982, Paton 6521.
- 38.5 *Jungermannia borealis*, with *Seligeria recurvata* and other bryophytes on sheltered N.-facing rock face at base of Old Red Sandstone crags, c. 500 m alt., Craig Cerig Gleisiad, Brecon Beacons 22/92 (42), Blackstock & Howe.
- 39.1 *Nardia compressa*, in montane flush, Coire Mhic Mhathain, Coire Mor, Strath Mulzie 28/28 (106), 1992, Blockeel & Rothero, 21/228.
- 40.4 *Marsupella sprucei*, on vertical face of boulder in disused slate quarry, Rosebush, NNW of Maenclochog 22/02 (45), Newton.
- 41.2 *Gymnomitrium obtusum*, block boulder scree, 520 m alt., Crow Craig, Daer Head 26/90 (77), Corner.
- 46.4 *Plagiochila britannica*, calcareous sandstone cliff, Lough Navar Forest H/05 (H33), Hodgetts 2696.
- 46.7 *P. killarniensis*, trunk of ash tree in limestone woodland gorge, Marble Arch H/13 (H33), Sérgio.
- 47.1 *Leptoscyphus cuneifolius*, base of birch tree in wooded ravine, Correl Glen H/05 (H33), Urmi.
- 48.3 *Lophocolea hinspinosa*, on damp sandy bank under *Pinus sylvestris* and *Betula pendula*, 30 m alt., disused quarry, Midhurst 41/82 (13), Matcham.
- 53.1 *Douinia ovata*, on NW side of young *Quercus petraea* trunk in woodland, 300 m alt., by Garreg-ddu Reservoir, Cwm Coel 22/86 (43), Orange & Woods 9477.
- 54.3 *Diplophyllum obtusifolium*, peaty rocky bank in old quarry, 235 m alt., Threeewood Bridge 36/54 (81), Long 23264 (E).
- 55.13 *Scapania paludicola*, with *Sphagnum subnitens* in wet poor fen, 166 m alt., near Afon Teifi NE of Tregaron Bog 22/76 (46), Hale.
- 55.17 *S. uliginosa*, delete H1, H2, H12, H20, H27 and H35 (Long, 1993).
- 57.2 *Odontoschisma denudatum*, rotting log with *Nowellia*, Scottshall Covert, RSPB Minsmere, Westleton 62/44 (25), 1991, P.J. Wanstall, comm. Fisk; on peat in mire, Forest of Alyth, N. of Bridge of Cally 37/15 (89), Newton.
- 58.2 *Cephalozia subdentata*, with *Cephalozia pleniceps* on *Sphagnum papillosum*, flush in birchwood, Drumgask, Laggan 27/69 (96), 1964, Paton 5297.
- 59.4 *Cephalozia loitlesbergeri*, on peat on raised bog, Mt Jessop N/17 (H24), 1986, Douglas & Grogan, det. Blackstock.
- 59.5 *C. pleniceps*, with *C. connivens* on *Sphagnum*, Duckhole Bog, Near Holmsley, New Forest 41/20 (11), 1956, Paton 5311; with *Sphagnum* and *Mnium hornum*, marshy area behind coast, W. of Glen Martin, Isle of Muck 17/37 (104), Dobson.
- 69.1 *Calypogeia neesiana*, peaty ground under Scots Pine, 12 m alt., Kirkconnel Flow N. of New Abbey 25/96 (73), Stern.
- 72.2 *Ptilidium pulcherrimum*, on three larches by streamside in small valley, Forest of Ae, Auchenbuie Burn near Holehouse 25/99 (72), 1992, Rumsey.

- 78.3 *Frullania microphylla* a var. *microphylla*, transfer all existing records of *F. microphylla* to this variety; b var. *deciduifolia* Grolle, 49 (Paton, 1992); new to the British Isles.
- * 83.1 *Lejeunea cavifolia*, on ash bole in wet area of wood, Bonny Wood 62/05 (25), Strauss.
- 83.2 *L. lamacerina*, base of beech by stream, 35 m alt., Brook, near Cadnam 41/21 (8) Stern.

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MUSCI

T.L. BLOCKEEL

- 1.1 *Sphagnum imbricatum* a ssp. *austinii*, forming low hummock in wet hummock-and- pool blanket bog, 565 m alt., c. 400 m SW of Cranmere Pool, North Dartmoor 20/68 (4), Proctor (the locality is c. 100 m N. of the north coast/south coast watershed, which is the boundary between v.-c. 3 and v.-c. 4).
- 1.6 *S. teres*, Lough Moss J/25 (H38), Bailey.
- 1.11 *S. warnstorffii*, with *S. teres* in recolonized peat cutting, forming part of *Sphagnum* carpet over ± calcareous water, Malham Tarn West Fen 34/86 (64), 1990, Proctor.
- 1.19 *S. auriculatum* b var. *inundatum*, in flush to east of Cranberry Rock, The Stiperstones 32/39 (40), 1992, Newton.
- 1.20 *S. subsecundum*, moderately base-rich fen, 165 m alt., NE edge of Cors Caron 22/76 (46), Hale.
- 1.26 *S. pulchrum*, in mire on shore of Llyn-Ty'n-y-mynedd, NW of Betws-y-Coed 23/75 (49), Newton; in small area of *schwingmoor*, Bettisfield Moss 33/43 (50), Newton.
- 1.27 *S. recurvum* a var. *amblyphyllum*, in flushed ground E. of Devil's chair, The Stiperstones 32/39 (40), 1992, Newton; on ground in mixed birch and pine woodland, Black Wood of Rannoch, S. of Loch Rannoch 27/55 (88), 1992, Newton; in lagg zone of ombrotrophic mire, Forest of Alyth, NE of Bridge of Cally 37/15 (89), Newton: b var. *tenue*, amongst *Juncus effusus* in hillside flush below spoil heap, 240 m alt., disused lead mine, Creigiau Ladis, 8 miles NW of

- Llandovery 22/74 (44), Williams, det. Hill; in flush, Deep Clough, Goyt Valley, S. of Whaley Bridge 43/07 (57), Newton; in flush on lower slopes to S. of the Cairnwell 37/17 (89), Newton.
- 1.29 *S. riparium*, quaking *Sphagnum* carpet under open *Betula pubescens*, 240 m alt., Buckstruther Moss, near Hawick 36/51 (80), van Wirdum & Proctor.
- 1.30 *S. lindbergii*, quaking saddle mire, 200 m alt., near Creag Meadie, SE of Bettyhill 29/75 (108), Lawrence, comm. Hill.
- 2.1 *Andreaea alpina*, rocks on W. side of Earncraig Hill, 560 m alt., Daer Head 26/90 (77), Corner.
- 2.4 *A. rothii* b ssp. *falcata*, exposed rock outcrop on river bank, 210 m alt., Dye Water above Rathburne Hotel, Longformacus 36/65 (81), Long 23294 (E).
- 5.2 *Polytrichum longisetum*, on wooden sleeper on ground, behind inner dunes, Talacre 33/18 (51), Newton.
- 14.2 *Ditrichum flexicaule* sensu stricto, transfer the existing entry to *D. crispatisimum* (q.v.), and replace with: (1, 10, 11), 12, 17, (29), 32, (35, 36), 41, (42, 44, 48-50, 55), 57, (59, 60, 63, 64-66), 69, (82), 88, (89, 108), H10, (H27, H35, H38, H39) (Smith, 1993; vice-counties where the most recent confirmed record is more than 50 years old have been placed in parentheses); downs between Excette and Eastbourne 50/59 (14 in ()), 1901, W.E. Nicholson (CGE), comm. A.J.E. Smith; in dune slacks, Aberffraw 23/36 (52), Redgrave, comm. A.J.E. Smith; Ben Lui 27/22 (98 in ()), 1906, anon., herb. T. Barker (MANCH), comm. A.J.E. Smith.
- 14.2A *D. crispatisimum* (C. Muell.) Par., transfer the existing entry from *D. flexicaule* (Smith, 1993), but delete 63, for which there is no confirmed record of *D. crispatisimum*.
- 14.6 *D. pusillum*, loosely associated with small *Fissidens* sp. on gritty soil near base of vertical sheltered laneside bank, 320 m alt., Widecombe in the Moor 20/67 (3), Pool.
- 14.8 *D. plumbicola*, on fine silt/spoil in depression on spoil heap, disused lead mine, 230 m alt., Cwm Ystwyth Mine 22/87 (46), Williams; entrance to rabbit burrow, 200 m alt., Bryn Tail Lead Mine, nr. Llyn Clywedog, Llanidloes 22/98 (47), Williams.
- 18.3 *Seligeria acutifolia*, dry vertical limestone face in gorge, Marble Arch H/13 (H33), Hodgetts 2769.
- 31.2 *Kiaeria blyttii*, block scree, 520 m alt., below Gow Craigs, Daer Head 26/90 (77), Corner.
- 32.7 *Dicranum spurium*, Pow Hill 45/05 (66), McCutcheon, comm. Graham.
- 32.8 *D. undulatum*, on peat, in Welsh border-drain clearing in *Pinus* woodland, Bettisfield Moss 33/43 (50), Newton.
- 32.9 *D. fuscescens* a var. *fuscescens*, bark of fallen tree trunk, Butley Thicks, Butley 62/35 (25), Fisk.
- 32.14 *D. tauricum*, on trunk of dead Birch tree, 65 m alt., Sheringham Wood, Upper Sheringham 63/14 (27), Stevenson.
- 34.12 *Campylopus brevipilus*, cushions in *Sphagnum* bog, 10 m alt., mire at N. end of Ulva, Tayvallich, Knapdale 16/78 (101), Rothero 93/127.
- 35.1 *Paraleucobryum longifolium*, in crevices of block scree on shore of loch, 640 m alt., Loch Brandy, Glen Clova 37/37 (90), Rothero 93/055.
- 36.2 *Leucobryum juniperoideum*, in sweet chestnut coppice, Bentley 62/13 (25), Strauss; woodland floor, Glengarriff Wood V/95 (H3), 1979, Lockhart, comm. Stewart (Herb. Forest & Wildlife Service, Newtown Mount Kennedy).
- 37.6 *Fissidens rivularis*, in crevices of irrigated vertical rocks at entrance to cave, 20 m alt., Ravenshall Woodland, SW of Gatehouse of Fleet 25/55 (73), Rothero 93/117.

- 37.12 *F. celticus*, on soil of steep bank of stream in woodland, 50 m alt., Seckley Wood, banks of R. Severn, near Pound Green 32/77 (39), Blockeel 22/276; bare soil on bank of stream in woodland, 110 m alt., Long Wood, Moss Valley, near Dronfield 43/38 (57), Blockeel 22/325.
- 37.14 *F. taxifolius* b ssp. *pallidicaulis*, ditch bank, 75 m alt., Islands Thorns Inclosure, New Forest 41/21 (11), Matcham & Stern.
- 37.17 *F. serrulatus*, bouldery wooded river bank, on soil bank, 5 m alt., Glantrasna River, Lauragh Bridge V/75 (H1), 1992, Long 23185.
- 38.1 *Octodicerus fontanum*, 15-20 cms under water on old concrete steps, Thames Embankment, Shepperton 51/06 (21), Wiltshire.
- 40.5 *Tortula virescens*, growing on exposed roots of ash tree in a field near Compton Wyngates 42/34 (38), 1992, Higgs (Herb. Higgs).
- 40.10 *T. subulata* a var. *subulata*, on soil under trees, Tarleton's Lake Nature Reserve, Bayhurst Wood, Ruislip 51/08 (21), 1992, Wiltshire.
- 40.13 *T. vahliana*, on soil among tree roots on shaded banks in wooded park, 200 m from coast, King George VI Memorial Park, Ramsgate 61/36 (15), Watling.
- 40.14 *T. cuneifolia*, crumbling soil on bank of lane, nr. Ty Pellaf, Bardsey Island 23/12 (49), Yeo & Blackstock.
- 41.1 *Aloina brevirostris*, on chalk ground to paste by vehicle wheels, 60 m alt., chalk pit at Bigby near Brigg 54/00 (54), Lammiman.
- 42.2 *Desmatodon convolutus*, SW-facing low shale cliff by estuary shore, 5 m alt., Foynes Island R/25 (H8), Wiltshire.
- 45.2 *Pottia starkeana* d ssp. *minutula*, sides of deep vehicle tracks in clay of ride, Gorsley Wood, nr. Bishopsbourne 61/15 (15), Watling.
- 45.9 *P. heimii*, on silt subject to tidal action, near Point of Air Lighthouse 33/18 (51), Newton.
- 46.1 *Phascum cuspidatum* a var. *cuspidatum*, barley field on clay soil, 62 m alt., Outon, 1.5 km north of Whithorn 25/44 (74), Martin, Stanley & Whitehouse: b var. *piliferum*, in very small quantity among *Barbula tophacea* on stony soil, grounds of lighthouse, Bardsey Island 23/12 (49), Blackstock & Yeo.
- 48.1 *Hyophila stanfordensis*, on soil among tree roots on shaded banks in wooded park, 200 m from coast, King George VI Memorial Park, Ramsgate 61/36 (15), Watling.
- 49.1 *Barbula convoluta* b var. *commutata*, 46 m alt., Hubbards Hills, Louth 53/38 (54), 1990, Lammiman.
- 49.15 *B. nicholsonii*, tarmac path near railway station, Tenby 22/10 (45), Stern; on stone edging of old mill dam in river, R. Wye, Millers Dale, near Cressbrook 43/17 (57), Blockeel 22/345.
- 49.16 *B. trifaria*, gravelly roadside, 5 m alt., W. end of runway, Sumburgh Airport, Mainland 41/31 (112), Long 24635.
- 49.19 *B. vinealis*, on stony floor of old quarry, 20 m alt., Grutness Quarry, Sumburgh, Mainland 41/40 (112), Long 24620.
- 49.22 *B. ferruginascens*, on bare open soil in old Silica pit on Carboniferous Limestone, 325 m alt., Bees Nest, Brassington 43/25 (57), Blockeel & Pearman, Blockeel 22/286.
- 51A.1 *Leptobarbula berica*, west wall of church, on north-facing buttress, Combs Church, Stowmarket 62/05 (26), Strauss.
- 53.1 *Eucladium verticillatum*, chalky bank, 130 m alt., West Lavington 41/05 (8), Stern.
- 54.4 *Weissia rutilans*, old pasture near estuary shore, ploughed for forestry in 1991, 5 m alt., Foynes Island R/25 (H8), Wiltshire.

- 54.6 *W. microstoma* b var. *brachycarpa*, damp fallow field, 50 m alt., behind Thorpe Wood, Cleveland 45/42 (66), Blackburn.
- 54.12 *W. longifolia* a var. *longifolia*, stubble field, 30 m alt., Stainton Vale Farm, Middlesbrough 45/41 (62), Blackburn; field bottom, 30 m alt., Low Stotfield Farm, near Hartlepool 45/42 (66), Blackburn.
- 57.1 *Tortella fragilis*, thin soil over limestone on exposed hilltop grassland, Crossmurrin H/13 (H33), Hallingback, comm. Hodgetts. New to Ireland.
- 57.6 *T. densa*, on calcareous cliffs, Crossmurrin NNR, south-eastern part H/13 (H33), Hallingback, comm. Hodgetts.
- 57.8 *T. nitida*, limestone crag, Creeves R/24 (H8), Wiltshire & O'Brien.
- 58.1 *Pleurochaete squarrosa*, on thin soil on broken limestone on S.-facing slope, ca. 210 m alt., near foot of Hall Dale, Dovedale 43/15 (39), Blockeel 22/044.
- 59.1 *Trichostomopsis umbrosa*, Peterborough Cathedral Precincts 52/19 (32), Hodgetts.
- 61.1 *Cinclidotus fontinaloides*, concrete weir on R. Waveney, nr. Earsham Mill, Bungay 62/38 (25), Fisk.
- 61.3 *C. mucronatus*, on soil, banks of Grace Dieu brook 43/41 (55), 1984, Hall.
- 63.2 *Schistidium alpicola* b var. *rivulare*, on stonework of bridge, at water level, 100 m alt., bridge over Glencorbry River, 1.5 km S. of Glin R/14 (H8), 1992, Wiltshire.
- 64.17 *Grimmia trichophylla* a var. *trichophylla*, on red-brick top of churchyard wall, Euston, near Thetford 52/97 (26), Pyner.
- 64.20 *Grimmia decipiens*, exposed rock outcrop by water, 210 m alt., Dye Water above Rathburne Hotel, Longformacus 36/65 (81), Long 23297.
- 66.4 *Racomitrium fasciculare*, tiled roof of building near church, 165 m alt., Stourton 31/73 (8), Stern.
- 66.5 *R. heterostichum*, on boulder in hillside flush, Glen Loch 27/97 (89), Newton.
- 66.5A *R. affine* sensu A. Frisvoll, between stones on stone wall by stream, 380 m alt., Ettersgill, Teesdale 35/83 (66), Wharton; on boulder on NE-facing slope of Kindrogan Hill, Enochdhu, NW of Kirkmichael 37/06 (89), 1992, Newton.
- 66.6 *R. sudeticum*, on mortared gritstone wall, 290 m alt., Kinder Reservoir, Hayfield 43/08 (57), Blockeel 22/314.
- 66.9 *R. canescens*, on thin soil in crevice of rocky bank, Tomintoul, SW of Braemar 37/19 (92), Newton.
- 75.1 *Ephemerum recurvifolium*, bare ground in grassland, 150 m alt., West Down Impact Area, Salisbury Plain 41/05 (8), Stern.
- 75.4 *E. stellatum*, in set-aside field, fallow for fourteen months, 30 m alt., Boxgrove, near Chichester 41/90 (13), Matcham.
- 75.5 *E. serratum* c var. *minutissimum*, barley field on sandy soil, 15 m alt., Glen Stuart, Cummertrees 35/16 (72), Stanley & Whitehouse.
- 83.1 *Orthodontium lineare*, in crevice of damp ?granitic rock on steep cliff slopes above lake, Upper Lough Bray (H20), 1992, Rumsey.
- 83.2 *O. gracile*, sandstone cliff face, Lough Navar Forest H/05 (H33), Sérgio, comm. Hodgetts, new to Ireland.
- 85.6 *Pohlia drummondii*, moist ground at edge of pool in old Silica pit on Carboniferous Limestone, 320 m alt., Bees Nest, Brassington 43/25 (57), Blockeel & Pearman, Blockeel 22/290.
- 85.9 *P. bulbifera*, associated with *Atrichum crispum* on gravelly stream bank among old mine workings, 345 m alt., Golden Dagger Mine, Dartmoor 20/68 (3), Pool.
- 85.10 *P. annotina* (Hedw.) Lindb. is the correct name for this entry; *P. prolifera* (q.v.) is a distinct species.

- 85.10A *P. proligera* (Lindb.) Lindb. sens. str., cutting in sandstone rocks, near Kidderminster 32/87 (37) in (), 1914, P.G.M. Rhodes (BBSUK); crevices on sandstone cliffs, valley of the Nant-y-ffrith 33/25 (50), 1960, Paton & E.F. Warburg (Herb. Paton); sandstone rocks, Dufton Gill (69), 1946, E.F. Warburg, Herb. P. Castell (NMW); basalt rock crevice, west bank of Medwyn Water, Pentland Hills 36/05 (77), 1976, Paton, Long & J.C. Gardiner (Herb. Paton); soil beside the Blackburn, Newcastleton 35/48 (80), 1960, A.J.E. Smith & Paton (BBSUK); on rocks by river, Hoardweel, Whiteadder River (81), 1963, R.D. Fitzgerald (BBSUK); crevice of basalt rocks with *Dichodontium pellucidum*, E. corrie of Balglass, Campsie Hills 26/58 (86), 1969, A. McG. Stirling & F.G. Rodway (BBSUK); soil on cliff, Creag an Lochain, Killin 27/54 (88), 1960, Paton & A.J.E. Smith (Herb. Paton); under calcareous rock, Craig Larnaich, Glen Shee 37/07 (89), 1964, E.F. Warburg (BBSUK); crevice of schist rock, N. side of Caenlochan Glen 37/17 (90), 1965, Ursula Duncan (BBSUK, E); rock crevice, Corrie Kander, Glen Callater 37/18 (92), 1964, E.F. Warburg (BBSUK), and soil on slope, NE of Loch Kander, 37/18 (92), 1964, Crundwell (BBSUK); bank at side of path in wood by R. Deveron, Glass, W. of Huntly 38/43 (93), 1962, Crundwell (Herb. Crundwell); rock shelf, by R. Roy, Glen Roy, nr Roy Bridge 27/28 (97), 1964, J. Appleyard & Paton (BBSUK), and banks beside R. Spean, E. of Spean Bridge, Fort William 27/28 (97), 1964, Paton (Herb. Paton); shady bank of the Black Water, Amat forest 28/49 (106), 1951, Crundwell (Herb. Crundwell); on crumbly schist, Altalacky River, Mullaghmore, near Dungiven C/70 (H40), 1965, R.D. Fitzgerald (BBSUK). New to the British Isles, all records det. or conf. A.C. Crundwell (see also Crundwell, 1994).
- 85.15 *P. lescuriana*, on soil slope treated by herbicide, 210 m alt., Dawyck Arboretum 36/13 (78), Long 23246.
- 88.1 *Anomobryum filiforme* b var. *concinatum*, base-rich cliffs, on calcareous ledges in gully, 550 m alt., SW cliffs of Craig Rennet, Glen Fee 27/27 (90), Long 25015.
- 89.3 *Bryum warneum*, transfer the entry for 16 to 15, the locality [between Lydd and Dungeness, leg. C.C. Townsend, 1980] is wrongly assigned in *Bull. Br. bryol. Soc.* 38 (1981), p. 30, comm. Preston.
- 89.18 *B. intermedium*, damp undercliff, The Spittles, near Lyme Regis 30/39 (9), Hill.
- 89.19 *B. donianum*, re-instate C, the record [Fermain Bay, Guernsey, leg. Paton (see *Trans. Br. bryol. Soc.* 6: 205)] was inadvertently omitted from the current edition of the *Census Catalogue*.
- 89.23 *B. flaccidum*, on old elder, 115 m alt., West Wood, Sparsholt 41/43 (11), Stern.
- 89.24 *B. torquescens*, transfer the entry for 27 to 28, the locality [Seashore, Holme, W.E. Thompson, 1903 (BBSUK)] is wrongly assigned on the herbarium packet and in Syed (1973), comm. Preston.
- 89.27 *B. pallescens*, thatch on top of wall, 100 m alt., Wilsford 41/15 (8), Stern; on retaining wall, Nacton churchyard 62/23 (25), Strauss; on sandy soil by lake, Lackford Wildfowl Reserve 52/87 (26), Strauss.
- 89.28 *B. pseudotriquetrum* a var. *pseudotriquetrum*, on dampish sandy soil among other vegetation, Ruislip Reservoir 51/08 (21), 1992, Wiltshire.
- 89.31 *B. alpinum*, rocks on W. side of Earncraig Hill, 560 m alt., Daer Head 26/90 (77), Corner.
- 89.39 *B. gemmilucens*, Dunwich Heath 62/46 (25), Strauss; in flax field, Thorne Ashfields 44/61 (63), Wall.
- 89.40 *B. dunense*, gravel road, 150 m alt., Wilton Brail, near Great Bedwyn 41/26 (8), Stern.

- 89.44 *B. violaceum*, barley field on clay soil, 60 m alt., near Mollance, north of Castle Douglas 25/76 (73), Stanley & Whitehouse; barley field on clay soil, 62 m alt., Outon, 1.5 km north of Whithorn 25/44 (74), Martin, Stanley & Whitehouse.
- 88.45 *B. klinggraeffii*, barley field on clay soil, 60 m alt., near Mollance, north of Castle Douglas 25/76 (73), Stanley & Whitehouse.
- 89.46 *B. sauteri*, in arable field on Coal Measures, 120 m alt., by Long Wood, Moss Valley, near Dronfield 43/38 (57), Blockeel 22/328; barley field on clay soil, 60 m alt., near Mollance, north of Castle Douglas 25/76 (73), Stanley & Whitehouse.
- 89.49 *B. bornholmense*, peaty mound, East Parley Common, near Hurn 40/19 (11), 1983, Stern; richly fruiting, covering several square metres of open, slightly damp soil, Rassler Wood 41/88 (24), O'Leary.
- 91.3 *Mnium ambiguum*, in crevice under boulder near Ski Centre, the Cairnwell 37/17 (92), Newton.
- 94.2 *Plagiomnium affine*, on soil nr. footpath, Great Wood, Fawley 41/78 (24), O'Leary; on damp soil in hill pasture, The Hollies, SE of Snailbeach, The Stiperstones 33/30 (40), 1992, Newton; on side of rock outcrop, Southwick Bank Wood, south-east of Dalbeattie 25/95 (73), Crundwell.
- 94.3 *P. elatum*, among *Calliergon cuspidatum*, 115 m alt., Jones's Mill Nature Reserve, Pewsey 41/16 (8), Stern.
- 102.4 *Bartramia ithyphylla*, on Bargate Beds, roadside bank, 40 m alt., Woolbeding 41/82 (13), H.W. & L.G. Matcham.
- 105.4 *Philonotis caespitosa*, delete 3, the locality [Okehampton Park, Dartmoor, 1990, leg. Porley, *Bull. Br. bryol. Soc.* 58: 44] is in 4, comm. Preston; in trickling water on mountain side, Feede (H31), 1944, J.F. Thomson (Herb. Galway University), comm. Stewart.
- 105.6 *P. tomentella*, delete 42, the specimen [Townsend 91/362, Traeth Mawr, 25/09/1991 (BBSUK)] is *P. fontana*, det. & comm. Hill.
- 105.7 *P. seriata*, in montane spring, ca. 700 m alt., corrie to N. of Conival summit, W. of Ben More Assynt 29/32 (107), 1992, Rothero, Blockeel et al., Blockeel 21/318.
- 109.1 *Zygodon viridissimus* b var. *stirtonii*, on church wall, Headbourne Worthy 41/43 (12), Crundwell; wall, Roughan R/29 (H9), 1944, J.S. Thomson (Herb. Galway University), comm. Stewart.
- 109.2 *Z. baumgartneri*, on large ash tree in ravine, 70 m alt., Holm Glen, New Galloway 25/67 (73), Rothero 93/114.
- 109.3 *Z. conoideus*, on elder, 50 m alt., The Howls, Dalton Piercy, nr. Hartlepool 45/43 (66), Blackburn; on Elder, 5 m alt., near Cloch Point, Gourack 26/27 (76), Blockeel 22/367.
- 110.5 *Orthotrichum lyellii*, horizontal branch of *Salix fragilis* by pond, 8 m alt., Shotgate Thickets E.W.T. Nature Reserve, Wickford 51/79 (18), Pyner.
- 110.14 *O. stramineum*, trunk of sycamore, 105 m alt., wood east of Newton Toney 41/24 (8), Stern.
- 111.2 *Ulotia drummondii*, on *Corylus*, 205 m alt., Dawyck Arboretum, by Scrape Burn 36/13 (78), Long 23244.
- 111.3 *U. crispa* a var. *crispa*, on old willow, beyond chalk pit at N. end of Summerhouse Lane, Harefield 51/09 (21), Wiltshire.
- 113.1 *Fontinalis antipyretica* b var. *gracilis*, submerged in stream, growing with *Hygrohypnum* spp., Bran Burn, Forest of Ae 25/99 (72), 1992, Rumsey: d var. *cymbifolia*, with *Elodea nuttallii* and filamentous algae in fenland drain, Blue Gowt Drain, Surfleet Seas End 53/22 (53), Croft & Preston.

- 121.3 *Neckera pumila*, on *Corylus*, 205 m alt., Dawyck Arboretum, by Scrape Burn, 36/13 (78), Long 23243.
- 124.1 *Hookeria lucens*, banks of stony stream under Alder growing with *Trichocolea tomentella*, Cap Wood, SW. remnant, Gerrards Cross 51/08 (24), 1992, Adams.
- 129.1 *Myrinia pulvinata*, tree roots in flood zone, R. Lune, nr. Hornby 34/56 (60), 1992, Raistrick, comm. Wigginton.
- 135.1 *Heterocladium heteropterum* b var. *flaccidum*, damp shaded rocks, Mill Glen, Tillicoultry 26/99 (87), 1992, Wigginton; bank by estuary shore, Ringmoylan R/45 (H8), Wiltshire.
- 137.1 *Thuidium abietinum* b var. *hystricosum*, Knettishal Heath 52/98 (26 in ()), 1920, A. Mayfield (NWH), comm. Fisk.
- 143.5 *Drepanocladus exannulatus* b var. *rotae*, delete 3, the locality [Okehampton Park, Dartmoor, 1990, leg. Porley, *Bull. Br. bryol. Soc.* **58**: 44] is in 4, comm. Preston; shallow ephemeral pool, The Curragh, S. of Thornton Lodge N/80 (H19), N.F. & R.J. Stewart.
- 143.7 *D. vernicosus*, flushed slope by ditch in calcareous marshy meadow, 20 m alt., Links of Quendale, N. end, Mainland 41/31 (112), Long 24681.
- 143.8 *D. uncinatus* (*Sanionia uncinata*), rocky bank of old quarry, 20 m alt., Grutness Quarry, near Sumburgh, Mainland 41/40 (112), Long 24623.
- 143.9 *Sanionia orthothecioides*, 105 (Long, 1993).
- 144.3 *Hygrohypnum luridum* a var. *luridum*, on silt covered stones and log by river, 90 m alt., Old Lodge Warren, Rotherfield, 51/53 (14), 1990, Stern.
- 150.4 *Brachythecium salebrosum*, on bank by track on northern edge of Clough Wood, NE of Winster 43/26 (57), Newton.
- 150.5 *Brachythecium mildeanum*, on damp N.-facing bank by dune slack, Talacre 33/18 (51), Newton; calcareous marshy meadow, 20 m alt., Links of Quendale, N. end, Mainland 41/31 (112), Long 24678.
- 150.12 *B. populeum*, on low pile of red bricks at edge of heath, Dunwich Heath 62/46 (25), Strauss.
- 152.2 *Scleropodium tourettii*, grassy roadside bank, 40 m alt., Brook, near Cadnam 41/21 (8), Stern.
- 154.3 *Rhynchostegium murale*, on rock beside path along raised beach, near Hawk's Nib, Isle of Bute 26/15 (100), Cocking.
- 155.3 *Eurhynchium pulchellum* a var. *pulchellum*, delete the entry for this variety: the voucher for 2 [Near Bodmin, R.V. Tellam (CMM)] is of doubtful provenance; the voucher for 3 [on top of a limestone wall in dry, sunny place, Torquay, C.H. Binstead, 1936 (NMW)] is *Cirriphyllum crassinervium*; the vouchers for 42, 69 and 108 [see *Bull. Br. bryol. Soc.* **42**: 56, and **44**: 27] probably do not belong to this species: b var. *diversifolium*, reinstate H40, the record [decomposed basalt, ca. 1400 ft, Benbradagh, R.D. Fitzgerald, 1964 (NMW)] was inadvertently omitted from the current edition of the *Census Catalogue*: c var. *praecox*, transfer the record for 26 to var. *diversifolium* and delete this variety, which is doubtfully distinct. All records revised by Hill (see also Hill, 1993).
- 158.1 *Entodon concinnus*, amongst limestone chippings over gravestone, 50 m alt., churchyard, Coggeshall 52/82 (19), Pyner.
- 166.1 *Platygyrium repens*, trunk of ash, Wadgell's Wood, nr. Haverhill 52/65 (26), 1992, Wanstall, comm. Fisk, also found independently by Preston, 1993.
- 167.1 *Homomallium incurvatum*, trunk of ash tree, Marble Arch H/13 (H33), Hallingback, comm. Hodgetts. New to Ireland.

- 168.12 *Hypnum vaucheri*, on open slabby limestone rocks on SW facing crags, 600 m alt., above Loch Loch, Beinn a'Ghlo 27/97 (89), Rothero 93/101, conf. Crundwell.
- 173.4 *Rhytidiadelphus loreus*, scrubby area on chalk slope, wood at The Hoo, Great Gaddesden 52/01 (20), G.P. Smith.

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THEFT OF MOSS

Prof. Paul Richards kindly sent this cutting from *Country Life* **November 25**, 1993, page 39. 'Derbyshire police have successfully concluded the first prosecution of its type in England: moss theft. The culprit was caught with 26 large sacks of moss taken from a Site of Special Scientific Interest, Matlock magistrates fined the man after he admitted "intentionally uprooting a wild plant, contrary to Section 13(1)(b) of the Wildlife and Countryside Act 1981" '.

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