

BRITISH BRYOLOGICAL SOCIETY

PRESIDENT: PROF. P. W. RICHARDS

BULLETIN

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NOTES FROM THE SECRETARY

It is regretted that publication of this Bulletin has been delayed and my apologies go to all those who have been eagerly waiting its arrival. Because it is late I would particularly draw your attention to the next Taxonomic Workshop which is in Leeds and takes place on 11-12 November. Details are on page 8. If you wish to participate in this very popular type of meeting please write to Tom Blockeel now.

I would like to thank all those members who send notes for inclusion in the Bulletin; because of them the Bulletin is of interest to a wide readership. Contributors, however, should note that articles for inclusion should arrive at least one month before the issue in which they are to appear is published. Publication dates are usually early January and early July.

REPORTS OF OFFICERS FOR 1977

(a) SECRETARY'S REPORT

During 1977 our publishers took over our Institutional Members as subscribers paying an increased rate, so our membership list shows a slight decline in numbers on last year's figures. Council took Blackwell's advice in agreeing to this taking place and the move brings us in line with most other learned societies. Blackwell's comment that they "did not believe the Journal would survive without a reasonable number of subscribers paying the full rate", is meat for thought. Our membership at the end of March 1978 thus totalled 481 (458 Ordinary and Junior, 8 Honorary and 15 Family members). I am sorry to have to report the deaths of Mme. V. Allorge and Miss Evelyn Lobley, both Honorary members, and of Miss Mary Dalby and Mr. W.E. Warren. Miss Lobley was well known to us as an expert on *Sphagnum* and was always meticulously helpful to both beginners and the more expert; she had served for forty years as a referee for the genus (1933 - 1973), an incredible record.

Jeff Duckett, our Meetings Secretary, has expressed his disappointment over the poorly attended summer meeting held in Scotland, partly in Perthshire and partly in Elginshire. Numbers dropped to about three at one point and were never greater than twelve. Various factors are presumably to blame - long distances, high costs and clashes with family holidays. I suppose we should be thankful that the meeting took place at all. Thanks are due to Paddy Coker and Roland Richter for organizing it. The Spring Meeting at Wareham, Dorset, was, as usual, much better attended with numbers as high as thirty and this in spite of Mark Hill's memories of "driving rain and sloshing about in wellies". Mark was the expert organizer and he it was who managed to keep us going in adverse conditions. The Annual General Meeting and Paper-Reading Meeting took place in Leicester University in October and we are extremely grateful to Dr. C.A. Stace for acting as local secretary and making our stay comfortable and rewarding. Mark Seaward kindly arranged the day in the field; this was in Lincolnshire, a county not hitherto visited by the Society. Oxford was the venue for the fourth Taxonomic Workshop which was held in November and organized by Eustace Jones. This type of meeting is obviously very popular (this one was attended by 28 members) and I am wondering whether it should become a biannual event instead of an annual one as at present.

The end of the year saw the retirement from the Presidency of Jean Paton. She had put in a terrific amount of work for the Society: she always seemed to be giving speeches, writing letters of condolence, thanks or congratulations, or generally organizing everyone. So it is hoped that her successor, Paul Richards does not find his job too onerous. We welcome Stanley Greene as our new and astute Vice-President. Our Editors, Harold Whitehouse and John Birks, resigned at the year's end after 10 splendid years in which the Journal went from strength to strength; we are indeed very fortunate to have benefitted from their services. Tony Smith has bravely filled the gap they had left.

Mark Hill and Martin Corley have started work on a new Census Catalogue of mosses and liverworts. Brian O'Shea has re-formed the Reading Circle and got it prospering. Our Conservation sub-committee is doing sterling work and is about to finalize the Code of Conduct. And our Librarian, Ken Adams, has produced a new library catalogue. To cap all this our Treasurer, Derek Foster, is managing to make ends meet very nicely indeed. All this goes to show the immense amount of work being done for the Society so it is my pleasure to acknowledge the services of our Officers without whom the Society could not hope to survive.

A.R. Perry,
August, 1978.

(b) TREASURER'S REPORT

Herewith the Balance Sheet for 1977 showing the state of our affairs on December 31st.

We are living well within our income and, indeed, appear to be growing steadily richer. Ignoring our investments in unit trusts (at cost worth £2,060) which have not been touched, we had, in cash (current and deposit) on Dec. 31st 1975, £4,700, on Dec. 31st 1976, £1,484, on Dec. 31st 1977, £6,678 and on March 24th 1978, £6,900. As we have already paid Blackwell's bill for £1,500 and therefore have no further major expenses in 1978, we should have about £8,000 by Dec. 31st.

Since April 1977 I have been keeping our cash in a National Savings Bank Investment Account rather than in a bank deposit account since the interest (at $9\frac{1}{2}\%$) is so much better.

With regard to our unit trust investment (three different lots); these are today worth about what we paid for them and are yielding a mean of $6\frac{1}{2}\%$ gross (and involves the trouble of claiming the tax back). The units are also in the names of individuals, not the Society, which might be inconvenient. I would like to sell these units and, at least temporarily, put the money into National Savings. It would then be worth taking expert advice as to the best way of investing the Society's capital in the long term.

It has cost the Society £548 less to publish the Journal of Bryology for 1977 as compared with 1976. This is because, although production costs and Blackwell's various charges went up by about £500, we increased the subscription price to £12 and allowed Blackwell to take over institutional members so that our subscription income went up by over £1000.

At the time of writing there are, as usual, some 150 members who have not yet paid their subscriptions for 1978. This will entail the trouble and expense of sending out 'reminders' in the near future and the keeping of a constantly-revised 'stop-list'.

W.D. Foster,
April, 1978.

(c) EDITORS' REPORT

The decade during which the retiring editor has held office has seen many changes in the Journal. The major ones were in 1972, involving different publishers, a new title and two issues a year. Changes made during our six-year collaboration have included the design and colour of the cover and the method of type-setting and printing. We would like to take this opportunity of expressing our thanks to those who have acted as referees of manuscripts submitted for publication. The Society owes them a big debt, for their criticisms have frequently been of great importance in maintaining standards. We also thank Mr. Crundwell for preparing the index to each volume with such care. We hope that our successor will receive contributions to the Journal as exciting as those that passed through our hands.

H.L.K. Whitehouse,
H.J.B. Birks,

March 1978.

B R I T I S H B R Y O L O G I C A L S O C I E T Y
INCOME AND EXPENDITURE ACCOUNTS YEAR
TO 31 DECEMBER 1977

INCOME	£	EXPENDITURE	£
Subscriptions	2,651.73	Printing Costs	3,957.67
Sales - Blackwells Journals & Subscriptions 1977			
Less Outgoings	2,456.92	Cost of Bulletin 29	96.20
Profit - Sale 7% Savings	3.60	Cost of Bulletin 30	126.00
Sale Literature	330.45	Biological Sub. 1976&1977	15.00
Library Receipts	59.30	Commercial Union Ins.	12.27
Net Dividends Received:-		Postages	28.90
Drayton Inv. Trust	26.10	Stationery	14.63
British Savings Bonds	8.40	J. Arless (Record Cards)	104.23
Lloyds 3rd. Units	46.23	Blackwell Sub. Refund	18.00
Save & Prosper	37.12	Expenses - Officials	47.12
Deposit Int. Lloyds Bank Ltd.	152.97	Net Income over Expenditure	1,352.80
	<u>5,772.82</u>		<u>5,772.82</u>

STATEMENT OF AFFAIRS AS AT 31 DECEMBER 1977

LIABILITIES	£	ASSETS	£
Advance Subscriptions	42.00	National Westminster	
Blackwell A/C Creditor	1,500.75	Bank A/C Current	63.77
Capital A/C fwd.	5,529.49	Post Office Savings	6,300.00
Add Net Income		Drayton Inv. Trust-Cost	459.37
over Expenditure	1,352.80	Save & Prosper - Cost	530.00
	<u>6,882.29</u>	Lloyds 3rd. Units - Cost	1,071.90
	<u>8,425.04</u>		<u>8,425.04</u>

CERTIFICATE.

I hereby certify that the Income & Expenditure account has been prepared from the books and statements presented to me by W.D. Foster, Hon. Treasurer and to the best of my knowledge and belief show a true statement of the affairs of the Society as at 31 December 1977.

4 Oakwood Drive,
Prestbury,
Cheshire.

J. Brassington,
Certified Accountant,
27th March 1978.

(d) REPORT OF THE RECORDER FOR MOSSES

Moss recording in 1977 has been dominated by the effort of revising various species' distributions for a proposed new Census Catalogue (see Bull. Br. bryol. Soc. 30, 26, July 1977). The recorder is grateful to those curators and private individuals who have provided material for examination. Some of the results of the revision appear in this issue of the Bulletin, swelling the number of vice-county records. New infraspecific taxa are the largest category of additions, with varieties and subspecies of Sphagnum recurvum, Fissidens taxifolius, Campylopus pyriformis and Racomitrium canescens contributing numerous new records.

The following table presents the overall picture for the year in terms of numbers. An "old" species (Column 1) is one included in Dixon's Handbook, including taxa recognised as species in the current Census Catalogue but given lower rank by Dixon.

	Old spp.	New spp.	Vars	Total additions	Delete or[]
England	46	24	57	127	7
Wales	6	2	11	19	1
Scotland	50	39	41	130	15
Ireland	7	0	7	14	2
Total	109	65	116	290	25

Numbers are up on 1976, even when only "old" species are considered. However, this does not represent an increase of fieldwork, as several records of "old" species, notably of Aloina brevirostris and Brachythecium mildeanum result not from new recording but from renaming of specimens lying in herbaria named A. rigida and B. salebrosum respectively. B. salebrosum in particular, has been much misunderstood, owing to the inadequacy of Dixon's description and former nomenclatural confusion with B. mildeanum (= B. salebrosum var. palustre).

The moss recorder will be away in the United States for the academic year 1978-9. Specimens sent for examination between Sept. 1978 and Sept. 1979 will be stored and not examined until October 1979.

M.O. Hill,
January, 1978.

(e) REPORT OF THE RECORDER FOR HEPATICS

The number of new hepatic records for 1977 is 140, the highest since 1971. This however, does not indicate an increase in the amount of field work being done by hepaticologists. Quite the reverse, for 78 of the records belong to two species added to the British flora, Metzgeria temperata and Plagiochila killarriensis. The remainder, 62 records, is about $\frac{2}{3}$ of the number recorded in 1976, and only half that in the years 1972-5. While the number of possible new records must obviously be declining, it seems likely that much of this decrease can be attributed to a decline in the activity of hepaticologists. A number of members who have sent in substantial numbers of records in recent years, have not been active this year, doubtless through pressure from other activities, work, family life, etc.

M.F.V. Corley,
March, 1978.

(f) LIBRARIAN'S REPORT

Sales:	Census Catalogues	69	(14 at new reduced price)
	Transactions (parts)	91	
	Library Catalogues	32	
	Bulletins	2	

Loans: 34 items of books/separates, 7 loans of sets of slides.

The increase in the sale of Transactions this year has been due to the availability of the Volume 2 reprint. Several gifts of books for the library were received during the year.

Kenneth J Adams,
March, 1978.

(g) BIBLIOGRAPHER'S REPORT

This year there has been a slight reduction in the number of entries noted for the Bibliography although the reduction probably does not reflect any decrease in research activity in bryology. Many papers are still appearing which report the results of work in which bryophytes have been selected as suitable material for experiments.

Some slight changes in the categories used for bibliographic entries have been introduced during the year. The new heading 'pollution' has been added and 'fine structure' has been amalgamated with 'anatomy'.

G.C.S. Clarke,
February, 1978.

(h) CURATOR'S REPORT

362 mosses and 90 hepatics were received from the Recorders and have been incorporated. This is an increase of 84 mosses and a decrease of 42 hepatics compared with the numbers last year. 691 specimens were lent to the following recipients:

M.O. Hill (484), M. Corley (53), Dr. M.C.F. Proctor (42), D.G. Long (81), A. Orange (31).

S.G. Harrison,
February, 1978.

(i) REPORT OF MAPPING SECRETARY

During 1977 the mapping scheme made little progress although a number of steps have now been taken following the proposals I set before Council last September. These are only now beginning to produce results but these are listed below for information.

Regional Biological Recording centres are becoming an increasing nuisance in requesting lists of records from their areas. It seems a waste of time as data will be filed away probably never to see the light of day again. The Biological Records Centre have copies of most of our cards which will probably finally be lodged there anyway. A single centre from which information may be retrieved seems far more sensible than numerous, small and probably often inefficient ones. I gather the Lichen Society mapping secretary has similar views.

Present mapping situation

1. The Regius Keeper, Royal Botanic Gardens, Edinburgh, was glad to learn interest was being taken in Scotland and suggested an application be made to N.E.R.C. for a field assistant to work there.
2. Following my note in B.B.S. Bull. 31 it is clear from the response that several under worked areas in England are less under worked than was thought.
3. Despite two letter to Dr. F. Perring the Biological Records Centre has still failed to nominate anyone for the mapping scheme steering committee.
4. Application to N.E.R.C. for a grant to employ field/clerical assistant(s) is under consideration.

A.J.E. Smith,
March, 1978.

(j) MEETINGS SECRETARY'S REPORT

The four meetings held by the Society in 1977 closely followed the pattern of previous years. The spring, autumn paper reading and AGM, and taxonomic workshop were all well supported but again the summer meeting was very poorly attended. This was particularly disappointing in view of the hard work put in by the local secretaries and the great bryological interest of the two regions of Scotland visited. Since more and more members are clearly finding it increasingly difficult in terms of both time and finance to travel long distances, the Society might like to consider a reduction in the number of field meetings in future years.

J.G. Duckett,
April, 1978.

(k) REPORT OF THE CONSERVATION OFFICER

A Code of Conduct for bryologists has been developed and is in the final stages of production. It is hoped to produce copies within the next few months for distribution to members of the Society.

There has been an encouraging, if somewhat slow, initial response to my request for information on the first 15 rare or endangered species published in the last Bulletin. This seems to be a useful exercise, and is being complemented by Dr. Birks and Mr. Long, who are abstracting literature and herbarium records for these species.

P.D. Coker,
March, 1978.

EXCHANGE MEMBERS

Would exchange members please note that as from Vol. 10 part 2 they will receive their Journal of Bryology direct from the Librarian to whom all correspondence regarding the exchange should be addressed. Those members who have not sent copies of a Journal in exchange over a period of several years and who have not answered the circular sent out by the Librarian to all exchange members in 1977, will no longer receive copies of the Journal of Bryology automatically and should communicate with the Librarian (address below) if they wish the exchange to be resuscitated.

K. J. Adams, 63 Wroths Path, Baldwins Hill, Loughton, Essex IG10 1SH

FUTURE MEETINGS OF THE SOCIETY.

(a) Taxonomic Workshop, 1978: Leeds University, 11-12 November.
Local Secretary: Mr. Tom Blockeel, 9 Rutland Drive, Kippax,
Leeds, LS25 7HH.

The first day (Dept. of Botany, Leeds University) will be devoted to the handling of material for microscopic study. This will be followed by a field excursion to Hebden Bridge and Hardcastle Craggs (v.c. 63), where members can examine the Southern Pennine Clough flora, (including Andreaea rothii, Tetradontium brownianum, Jubula hutchinsiae, Blindia acuta, Dicranodontium denudatum, Bartramia ithyphylla, Isopterygium pulchellum, Schistostega pennata, Solenostoma caespitium and abundant Atrichum crispum). Members intending participating should write to Dr. Blockeel for further information.

(b) Easter Field Meeting, 1979: Ludlow, 4-11 April.
Local Secretary: Mr. Michael Pearman, City of Birmingham Polytechnic, North Centre, Birmingham. Tel. 021-356 6911 Ext. 222.
Headquarters, The Blue Boar, Town Centre, Ludlow.

Ludlow is situated in a region of varied geography and topography which provide a wide range of habitats. However, apart from a few classic sites such as the Clee Hills for Grimmia incurva and the local river te(a)ming with a Cinclidotus which may or may not be C. riparius, the area is poorly known bryologically.
(Full details in the next Bulletin).

(c) Summer Field Meeting, 1979: Ireland; 18-25 August, Limerick; 25 August - 1 September, Glengariff (Co. Cork).
Local Secretary: Mr. D. Synott, Dept. of Agriculture, National Botanic Gardens, Glasnevin, Dublin 9, Eire.

(d) Annual General Meeting & Paper Reading, 1979: Manchester University. Local Secretary: Dr. Martha E. Newton.

(e) Taxonomic Workshop, 1979: Reading University or Queen Mary College, London.

(f) Spring, 1980: S.W. Wales - Pembroke or Haverfordwest.

(g) Summer, 1980: Co. Durham.

B.B.S. DISTRIBUTION MAPS SCHEME

As a result of my notice in a previous Bulletin (No. 29) there has been a considerable response to my request for records. It is clear that several counties that I thought were neglected are far from being so. There are still, however, many areas of Britain, particularly in the English midlands, S.W. Wales and Scotland from which records are required. Volunteer recorders are urgently required ! For those worried about lack of expertise, mapping bryophytes is one of the best means of learning them.

One way in which recording may be carried out is by weekend meetings of small groups of bryologists. Will any members who are willing to participate in such meetings - and these are much more enjoyable than solitary recording - please let me know the areas they would be prepared to visit and I will put them in touch with similar-minded members. A party of 3 or 4 can list a surprising number of species in a relatively short time simply by visiting two or more habitats in a 10 km square in a morning or afternoon - and this could result in 3 or 4 reasonably worked squares in two days.

It has proved possible to obtain financial assistance towards the cost of travel and any member who would like to know more about this please contact me. It may, however, be necessary to do at least some recording at specified sites.

Further information and field record cards (40p for 10 including postage) are available from me at :

School of Plant Biology.
University College of North Wales,
Bangor, Gwynedd LL57 2UW.

A.J.E. SMITH.

MARY DALBY BRYOPHYTE HERBARIUM

This collection of 3,323 packets was presented by Miss Dalby to the City of Bradford Metropolitan Council's Arts & Museums Division shortly before her death.

The collection consists of material collected between 1957 and 1977, and complements Bradford's previous bryophyte material (see Hartley, M.M.(1977) City of Bradford Metropolitan Council Natural Sciences Collections : Part 1 Botanical Naturalist 102 : 25-30) of over 5,000 specimens, with a Yorkshire predominance - but collected between about 1850 and 1915.

Miss Dalby had prepared up-to-date card indexes for her Yorkshire Sphagna and Yorkshire Mosses : and catalogues of all the material in Census Catalogues of British Mosses (1963) and Hepatics (1965).

Yorkshire Sphagna : 951 packets; Yorkshire Mosses : 1,032 packets; Yorkshire Hepatics : 411 packets; Non-Yorkshire British Mosses (including Sphagna) : 654 packets; Non-Yorkshire British Hepatics : 275 packets.

Any enquiries should be addressed to :-

Margaret M. Hartley, B.Sc., A.M.A.
Keeper - Natural Sciences,
City of Bradford Art Galleries & Museums,
Cliffe Castle,
Keighley.
West Yorkshire.
BD21 6LH.

LIBRARY SALES & SERVICE, 1978

Members wishing to borrow papers from the Library should indicate when a xerox copy would do instead of the original. With bound journals this would save enormously on postage. The cost of xerox copies is 5p per exposure. It should be noted that the Librarian is under no obligation to supply xerox copies but is willing to do so while xeroxing facilities are available.

Members wishing to consult items in the Library in person should write to the Librarian, or telephone (01-508-7863), at least three days in advance. The nearest underground station is Loughton on the Central Line.

FOR LOAN:

(a) Approximately 200 bryological books, bryological journals and several thousand reprints of individual papers. Catalogue to the books and journals available from the Librarian, price 10p.

(b) Transparency collection, list available (S.A.E.). 624 slides in the collection. Loan charge 25p plus return postage. Only 50 slides may be borrowed at once to minimise possible loss.

FOR SALE:

Moss Exchange Club Reports for 1902 (5p each)

British Bryological Society Reports: Limited stock for 1927 (13p each) & 1944/5 (25p)

Transactions of the British Bryological Society - annual parts:

- Vol. 1 parts 1-5 (£1.60 each)
- Vol. 2 parts 1-4 (£3.00 each)
- Vol. 3 parts 1-5 (£3.00 each)
- Vol. 4 part 1 (£3.00), part 2 (£1.50), parts 3-5 (£2.00 each)
- Vol. 5 part 1 (£2.00), parts 2-4 (£3.00 each)
- Vol. 6 part 1 (£3.00), part 2 (£4.00)

Volume 6 part 2 completes the series of Transactions: volume 7 part 1 continues the series, but is renamed Journal of Bryology.

- Vol. 7 parts 1-4 (£2.50 each)
- Vol. 8 parts 1 & 2 (£3.00 each), part 3 (£3.50), part 4 (£5.00)
- Vol. 9 parts 1 & 2 (£4.50 each), parts 3 & 4 (£6.00 each)
- Vol. 10 part 1 (£7.00)

Census Catalogues:

- Duncan, J.B. Census Catalogue of British Mosses, ed 2. 1926 (13p)
- Sherrin, W.R. Census Catalogue of British Sphagna. 1946 (5p)
- Paton, J.A. Census Catalogue of British Hepatics, ed 4. 1965
Remaining stock at half price: plain 19p, interleaved 22p.
- Warburg, E.F. Census Catalogue of British Mosses, ed 3. 1963
Remaining stock at half price: plain 19p, interleaved 22p.

POSTAGE & PACKING EXTRA. Please do not include cash with U.K. orders.

Customers will be invoiced for the correct amount including P & P with goods to minimise correspondence.

All the above items are available from the B.B.S. Librarian:

Dr. K. J. Adams, 63 Wrothe Path, Baldwins Hill, Loughton, Essex IG10 1SH

Preliminary Announcement

Thirteenth International Botanical Congress

Sydney, Australia. 21-28th August, 1981

The Programme will consist of 12 sections – molecular, metabolic, cellular and structural, developmental, environmental, community, genetic, systematic and evolutionary, fungal, aquatic, historical, and applied botany. There will be plenary sessions, symposia, and sessions for submitted contributions (papers and posters). Chairman of the Programme Committee:— Dr. L. T. Evans.

Field Trips will include visits to arid and semi-arid regions, eucalypt forest, rain forest, heath, coastal vegetation (e.g. Great Barrier Reef, mangroves) etc., and specialist trips. Chairman of the Field Trips Committee:— Prof. L. D. Pryor.

First Circular, containing details, will be mailed in August, 1979. Send your name and full address, preferably on a postcard, to ensure your inclusion on the mailing list.

Enquiries should be sent to the Executive Secretary, Dr. W. J. Cram.

Congress address – 13th I.B.C., University of Sydney, N.S.W. 2006, Australia.

Sponsored by the Australian Academy of Science.

REVISION OF CENSUS CATALOGUES

M. F. V. Corley is revising the British distribution of certain taxa in connection with the proposed new Census Catalogue, and would like to see all available material of the following:

Fissidens viridulus

F. minutulus (not var. tenuifolius)

F. bambergeri

F. incurvus

Lepidozia trichoclados - specimens collected before 1970

Plagiochila spinulosa

Cephalozia ambigua

Would any members able to help please send material to :

M. F. V. Corley,
Pucketty Farm Cottage
Faringdon,
Oxon., SN7 8JP.

or bring it to the BBS Meeting at Ludlow in April, 1979.

VOUCHER SPECIMENS FOR NEW VICE-COUNTY RECORDS

These should be submitted to the appropriate recorder in a paper packet (not newspaper), and should give the name of the species, habitat, locality with vice-county number, name of collector and date of collection. The data should be clearly written, particularly the locality. Care should be taken to give the correct vice-county, since these frequently do not correspond with modern county boundaries. Those hepatics determined by oil-body examination should be sent to the recorder as soon as possible, and should not be dried by heating. Very small or large packets are inconvenient to house, and those under 5½" x 4½" (14 x 11 cm) and over 3½" x 2½" (8.5 x 6 cm) would be preferred.

NEW VICE-COUNTY RECORDS AND AMENDMENTS TO THE CENSUS CATALOGUES

All undated records are based on specimens collected in 1977.

HEPATICAЕ

M.F.V. Corley

The names and numbers follow Paton, Census Catalogue of British Hepatics ed.4. (1965)

- 3/1. Targionia hypophylla, delete (83), the specimen (E) is Reboulia hemisphaerica, comm. Long.
- 10/5. Riccia glauca, arable field, Warmsworth, Doncaster (63), Blockeel.
- 12/1. Riccardia incurvata, edge of pool in old sand workings, Darcy Lever, nr Bolton (59), Newton; damp sandy depression in old gravel workings on the coast, W. of Kingston (95), Paton. (B.B.S. Exc.).
- 13/1. Cryptothallus mirabilis, under Sphagnum in birchwood, nr Bridge of Derrybeg, S.W. of Charlestown of Aberlour, (94), Burton. (B.B.S. Exc.).
- 14/3. Pellia neesiana, moist ditch-bank, nr Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton. (B.B.S. Exc.).
- 15/2. Metzgeria fruticulosa has been found to comprise two species in Britain, M. fruticulosa and M. temperata Kuwah. (Paton, 1977a). The revised distribution of M. fruticulosa is as follows: 1-9, 11, 13-16, 20, 22-25, 27, 29, 33, 36, 40, 41, 45, 47, 49, 52, 60, 61, 65, 68, 70, 71, 73, 75, 77-86, 88-91, 93-95, 97-99, 101, 102, 104, 106, 107, 109, 111. H.2-6, H.8-11, H.13, H.15, H.17, H.18, H.23-26, H.28-33, H.35-40.C. Five additional records: old elder and alder by R. Alwen, nr Hafod, Corwen (48), Benoit; elder in open woodland, Tees banks W. of Gainford (66), Wigginton; elder, Killiechronan, at head of Loch na Keal, Isle of Mull (103), Corley; Loch Inver, (108), W.E. Nicholson, 1921 (CGE); Ballyton, (H.19), J.H. Davis, 1857 (E): var β ulvula, delete H.15, the specimen is M. temperata (NMW), comm. Long.
- 15/2A. Metzgeria temperata, 1-7, 9-14, 16, 17, 23, 32, 35, 36, 41, 42, 44, 46, 48, 50, 52, 60, 64, 65, 71-74, 98, 100, 101. H.3, H.4, H.6, H.7, H.9, H.12, H.15, H.16, H.24, H.25, H.31, H.33. C. New to the British Isles (Paton, 1977a). Six additional records: thorn tree in thick scrub, Grim's Ditch, N. of Martin (8), Paton, 1958 (OXF.); tree trunk, wood S.E. of Wickham Green, Welford (22), E.F. Warburg, 1955 (OXF.); old hazel by stream in wooded glen nr Dolforwyn, Abermule (47), Benoit; rock crevice, hills S. of Rhiw (49), E.F. Warburg, 1958 (OXF.); dry vertical surfaces in yew-oak woodland, Ellerside, Newby Bridge (69), Wigginton; dry vertical face of boulder in oak-birch woodland, S. side of Ennerdale Lake (70), Wigginton.
- 15/5. Metzgeria pubescens, basalt rocks by stream, Overtoun Glen, Milton, Dumbarton (99), Stirling.

- 17/2. Moerckia flotoviana, silt on limestone rocks beside river, Glen Tilt, N. of Blair Atholl (89), Paton (B.B.S. Exc.).
- 20/3. Fossombronina incurva, sandy path, Great Bay, St. Martin's, Isles of Scilly (1), Crundwell; edge of lay-by nr Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton (B.B.S. Exc.).
- 20/8. Fossombronina pusilla α var pusilla, waste ground near the road, nr Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton (B.B.S. Exc.).
- 20/9. Fossombronina wondraczekii, soil by farm track, East Blair, Glenfarg (85), Long.
- 31/6. Lepidozia sylvatica, shaded ditch-bank on the edge of Mark Ash Wood, New Forest (11), Paton (B.B.S. Exc.).
- 33/1. Calypogeia neesiana α var neesiana, peat bank on moorland E. of Allt Iomadaidh, above Bridge of Brown (95), Paton (B.B.S. Exc.).
- 33/7. Calypogeia arguta, among bryophytes by pathside, Tarnash, Keith (94), Richter (B.B.S. Exc.).
- 34/4. Lophozia alpestris, top of boulder on E. bank of R. Findhorn S. of Randolph's Leap, S. of Forres (95), Paton (B.B.S. Exc.).
- 34/6A. Lophozia perssonii, crevice of old magnesian limestone wall, ruins of Roche Abbey nr Maltby (63), Blockeel.
- 34/7. Lophozia obtusa, mossy turf of gully, W. slope of Ben Hope (108), Long.
- 34/11. Lophozia bicrenata, sand pit, Newell Wood (53), Jones (B.B.S. Exc.).
turfy ground near pool, Lossie Forest (95), Appleyard (B.B.S. Exc.).
- 35/4. Leiocolea bantriensis, base-rich flush on N. facing slope nr Allt Iomadaidh, above Bridge of Brown (95), Paton (B.B.S. Exc.).
- 35/5. Leiocolea heterocolpos, basic sandstone rock face by river, wooded valley below Edgelaw Reservoir, Temple (83), Long; ledge on base-rich rocks, N. bank of R. Findhorn, N. of Randolph's Leap, S. of Forres (95), Paton (B.B.S. Exc.).
- 36/2. Barbilophozia atlantica, wet stone in flushed hillside, N. of Watergrove Reservoir, above Wardle (59), Newton.
- 36/4. Barbilophozia quadriloba, flush on north side of Ben Vrackie (89), Crundwell & Paton (B.B.S. Exc.).
- 36/5. Barbilophozia kunzeana, tussock beside Allt Iomadaidh, above Bridge of Brown (95), Paton (B.B.S. Exc.).
- 37/3. Tritomaria exsectiformis, bare peat, Acharonich, Ulva Ferry, Isle of Mull, (103), Corley.
- 46/5. Solenostoma cordifolium, rocks in Allt Iomadaidh, above Bridge of Brown (95), Paton (B.B.S. Exc.).

- 47/1. Plectocolea obovata, bank of stream, Laghtnafrankee, S. of Clonmel (H.6), Fitzgerald, 1966.
- 47/2. Plectocolea subelliptica, sandy soil beside Allt Iomadaidh, above Bridge of Brown (95), Paton (B.B.S. Exc.).
- 54/2. Mylia anomala, on Sphagnum, Mundesley Bog, Godshill (10), Rose and Wallace, 1976.
- 56/2. Plagiochila asplenioides var β major, bank of wooded stream, Devil's Bit Mt. (H.10), Fitzgerald, 1967.
- 56/3. Plagiochila spinulosa var γ inermis, delete entire entry (Paton 1977b).
- 56/3A. Plagiochila spinulosa var killarniensis has been reinstated as a species, P. killarniensis Pears. (Paton, 1977b). The distribution is as follows: 1, 2, 11, 48, 52, 64, 70, 74, 97, 98, 101-103, H.1-3, H.9, H.16, H.20, H.27, H.29, H.35, H.39, C. There is one additional record: Island of Steepholm (6), N.Y. Sandwith, 1954, comm. Appleyard.
- 56/4. Plagiochila atlantica, boulder in birch-oak wood, Glen Creran, Appin (98), Paton.
- 56/5. Plagiochila punctata, rocky N.-facing coastal slope, Saxa Vord, Unst (112), Paton & Hill, 1974: var β owenii, delete entire entry (Paton 1977b).
- 62/4. Cephaloziella rubella, boulder on bank of R. North Esk, nr Auchendinny (83), Long, conf. Paton.
- 62/5. Cephaloziella hampeana, on Dicranum bonjeanii, birch wood near Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton (B.B.S. Exc.).
- 62/9. Cephaloziella starkei, sand pit, Newell Wood (53), Jones (B.B.S. Exc.); exposed peaty slopes, N. of lighthouse, Ailsa Craig (75), Long, conf. Paton.
- 63/5. Cephalozia connivens, rotten stump in birch wood near Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton (B.B.S. Exc.).
- 65/1. Nowellia curvifolia, old log, woodland in valley above Newtown, Cranborne Chase (8), Wallace, 1976.
- 66/2. Odontoschisma denudatum, decorticated pine log in wet birch-pine woodland, edge of Meathop Moss (69), Wigginton; heath beside Dorback Burn, W. of Dava Station (95), Paton (B.B.S. Exc.).
- 66/3. Odontoschisma elongatum, amongst O. sphagni and Campylopus brevipilus in bog near Tullywee Bridge, E. of Recess (H.16), Paton, 1968 - New to Ireland.
- 70/6. Scapania scandica, Linn Dean ravine, Soutra Hill (82), Chamberlain, 1974; woodland band near waterfall, Tarnash, S.E. of Keith (94), Paton (B.B.S. Exc.).

- 70/7. Scapania mucronata, ledge on base-rich rocks, east bank of R. Bran, nr Rumbling Bridge, S.W. of Dunkeld (88), Paton; ledge on base-rich rock above N. bank of R. Findhorn, S. of Randolph's Leap, S. of Forres (95), Paton (B.B.S. Exc.).
- 70/10. Scapania aequiloba; the distribution has been revised (Long, 1978), and is as follows: 49, 64-66, 69, 70, 72, 79, 80, 83, 85, 87-92, 94, 96-99, 101, 104, 105, 107, 108, 110, H.7, H. 28, H. 35. (3, 62, 106, H.3, H.8, H.9, H.34); there is one additional record: Sallagh Braes (H.39), Jones, 1952.
- 70/11. Scapania aspera, place 30 in (), the material on which the record was based cannot be found; basic rock, boulder on Red Daren, Longtown (36), Wallace, 1968; delete 40, specimen is S. gracilis, comm. Long; record for 72 is based on S. gracilis, replace by Duncan Skye, Tarras Water (72), H. Milne-Redhead, 1961(E), comm. Long; S.W. of Ashton (76), W. West, 1903 (BM), comm. Long; nr. Rafford (95) A. Croall, 1848 (BM), comm. Long; nr Bealach an Tarabairt, Garbh Eilach, Garvellach Is. (102), Stirling & Wallace, 1966 (BBSUK), comm. Long; delete H.21, specimen is S. gracilis, comm. Long; delete H. 30, specimen is S. nemorea, comm. Long.
- 70/15. Scapania degenii, base-rich flush on N.-facing slope near Allt Iomadaidh, above Bridge of Brown (94), Paton (B.B.S. Exc.).
- 71/6. Radula voluta, wet rocks by stream and beside waterfall, Garlies Wood, Minigaff, Newtown Stewart, (73), Rose, 1976.
- 75/1. Lejeunea cavifolia, outcrop of basic rock, Hebden Valley, N. of Hebden Bridge (63), Blockeel.
- 75/3. Lejeunea lamacerina α var lamacerina, damp vertical rock face on cliff, Hardcastle Craggs, Hebden Water (63), Blockeel: β var azorica, wet rock face at cave mouth, Swine Holes, Ailsa Craig (75), Long; damp rock face, Allt Breaclauch Ravine, L. Tay (88), Long.
- 78/1. Cololejeunea calcarea, outcrop of basic rock, Hebden Valley, N. of Hebden Bridge (63), Blockeel.
- 78/2. Cololejeunea rosettiana, on elder in limestone gorge, S. of Rufus Castle, Isle of Portland (9), Synnott (B.B.S. Exc.).

MUSCI

M. O. HILL

The names and numbers follow Warburg, Census Catalogue of British Mosses, ed.3 (1963).

- 1/12. Sphagnum recurvum is being retained as the name for S. flexuosum of European authors, on the advice of Dr. H.A. Crum. Of the varieties considered by Hill (Bull. Br. bryol. Soc. 29, 19, 1977), var. fallax is much the commonest, and the distribution of the species may be taken as the distribution of the variety. The other varieties are distributed as follows : β var amblyphyllum, St. Cleer (2), R.W. Smitham, 1921 (NMW); Ashculme Turbary nr

Hemyock (3), Appleyard, 1969; bog, Shipton Forest (6), A.J.E. Smith, 1959; Moreton Heath (9), W.R. Sherrin, 1919 (BBSUK); Brookwood (17), Sherrin, 1919 (BBSUK); Spout Pond, Finchampstead (22), E. Armitage, 1921 (BBSUK); Horning (27), W.H. Burrell, 1911 (NMW); Flitwick Moor (30), Hill, 1966; Hirwaun Common (41), Armitage, 1920 (BBSUK); Strata Florida (46), R. Jackett, 1918 (GL); Artro Valley (48), D.A. Jones, 1900 (BBSUK); Afon Rhaiadr Fach nr Aber (49), U.K. Duncan, 1949 (BBSUK); Ceiriog Ddu (50), A. Thompson, 1938 (BBSUK); marsh, Skipwith Common (61), Thompson, 1932 (BBSUK); bog by Brown Rigg Beck, Fylingdales Moor (62), A. Thompson, 1943 (BBSUK); wet bank in wood, Wyming Brook (63), Thompson, 1931 (BBSUK); marshy moorland, Yorks side of R. Tees, High Force (65), Thompson, 1930 (BBSUK); bog near Grasmere (69), F.A. Sowter, 1944 (NMW); wet ground by Kingside Loch, Buccleuch (79), Hill, 1976; flush by Allt Iomadaidh, S.W. of Bridge of Brown (95), Appleyard; ditch by track nr Strontian (97), Hill, 1976; Acharonich nr Ulva Ferry, Mull (103), Corley; boggy pools, cliffs N of Reiff, Coigarle (105), Wallace, 1960 (herb. E.M. Lobley); wet place under willow, nr Sugar Loaf Mountain, Glen-gariffe (H.3), Thompson, 1934 (BBSUK); bog by L. Inach, Connemara (H.16), Lobley, 1957; γ var tenuis, valley S.W. of Saddle Gate, Exmoor (4), C.A. Briggs, 1900 (NMW); roadside nr L. Vyrnwy (47), Hill, 1974; Moel y Slaten (48), J.E. Bagnall, 1898 (NMW); streamside, Marchlyn Mawr (49), Newton, 1965 (herb. Lobley); bog nr Docker (60), A. Wilson, 1911 (NMW); among rushes below Cautley Spout (65), M. Dalby, 1969; basic flush, Midgy House, Darden Burn, Coquetdale (67), Lobley, 1961; Lily Mere Moss (69), Wilson, 1918 (NMW); marsh by stream, Mosspebble Burn (72), Lobley, 1961; marsh by Kingside Loch, Buccleuch (79), Crundwell & Hill, 1976; basic flush on hillside, 650 m alt., below Meall na Samhna, Glen Lochay (88), Long; bogs nr Carloch, Glen Esk (90), U.K. Duncan, 1945; Findhorn Gorge nr Forres (95), U.K. Duncan, 1947 (BBSUK); depression in Molinia bog, Glencoe (98), Hill, 1976; flushed grassland, Stranefield, L. Caolisport (101), A. Eddy, 1976; Plockton, nr Kyle (105), Lobley, 1938 (BBSUK); Clyne (107), D. Lillie, 1914 (NMW); Ben Hiel (108), Lillie, 1912 (GL); Alt-nabreac (109), Lillie, 1919 (GL).

- 1/17. Sphagnum contortum β var platyphyllum, nr Llyn Ty'n-y-Llyn, S of Colwyn Bay (50), J. Ratcliffe, 1976.
- 1/23. Sphagnum warnstorffianum, basic flush, Wolf Cleugh, Dewar Burn, Moorfoot Hills (83), Long & Chamberlain.
- 1/24. Sphagnum rubellum is not distinct from S. capillaceum in Britain, delete entry (Hill, 1976).
- 1/25. Sphagnum capillaceum, add 8, 42, 93, H.10, H.12, H.14, transferred from the records of S. rubellum.
- 3/4. Atrichum tenellum, sandy bank beside Allt Iomadaidh, S.W. of Bridge of Brown (95), Paton.
- 5/9. Polytrichum aurantiacum, soil on uprooted tree stump, Grovely Wood, Great Wishford, Wilton (8), Corley; soil at tree base, Coalmeer Gutter, N.E. of Rufus Stone, New Forest (11), Corley; peaty soil in acid grassland, Neasham, Darlington (66), Wigginton.

- 8/3. Fissidens minutulus β var tenuifolius, metamorphic rocks, Allt Breaclauch ravine, L. Tay (88), Long.
- 8/7. Fissidens crassipes, soft sandstone, submerged, R. Tees nr Hurworth (66), Holmes.
- 8/8. Fissidens rufulus, rocks in bed of R. Ericht, Craighall, N. of Blairgowrie (89), Crundwell.
- 8/16. Fissidens taxifolius β ssp. pallidicaulis, 97, 98, 101-103, H.1, H.7, - new to the British Isles (Wallace, 1976).
- 12/1. Ditrichum cylindricum, bank of stream, small valley nr Denholme, Bradford (63), Blockeel.
- 12/2*. Ditrichum cornubicum sp. nov., 1, 2 (Paton, 1976).
- 12/4. Ditrichum lineare, soil by forestry track, Fishnish Bay, Mull (103), Corley.
- 12/4*. Ditrichum plumbicola sp. nov., 49, 67, 71 (Crundwell, 1976b).
- 12/5. Ditrichum zonatum, place 42, 91 in {} (Distr. Map, J. Bryol. 9, 399); β var scabrifolium, place 86 in {} (Distr. Map, J. Bryol. 9, 400).
- 12/7. Ditrichum flexicaule, wet calcareous grassland, Commons, Duleek (H.22), Synnott, 1965.
- 21/1. Pseudephemerum nitidum, wet slope in rough meadow S of Gamlingay (29), Adam et al.; damp track ne stream S.W. of Meikle Ardron E. of Keith (94), Paton.
- 22/2. Dicranella schreberana, moist clay by stream nr Holywell, N. of Stamford (53), Long; beside lane, Tarnash, S.E. of Keith (94), Paton.
- 22/4A. Dicranella staphylina, bare soil, woodland ride, Grovely Wood, Great Wishford, Wilton (8), Corley, 1976; newly sown lawn, Glenfarclas Distillery nr Bridge of Avon, Strath Spey (94), Catcheside & Whitehouse.
- 22/5. Dicranella rufescens, roadside bank, W. of Fife Keith (94), Paton.
- 22/7. Dicranella subulata, roadside bank, W. of Fife Keith (94), Paton.
- 23/2. Rhabdoweisia denticulata, shaded rocks, Wolf Cleugh, Moorfoot Hills (83), Chamberlain & Long.
- 23/3. Rhabdoweisia crenulata, soil at edge of stream, Wildboardclough nr Macclesfield (58), Foster & R. Vince, 1974.
- 24/4. Cynodontium jenneri, siliceous outcrop, Obmore, Knapdale Forest (101), Kenneth.
- 28/1. Arctoa fulvella, rocks in corrie above Lough Agh, Slieve League (H.35), Corley, 1970.

- 29/5. Dicranum montanum, tree trunk nr stream in woodland, Danbank, Marple (58), Newton.
- 29/7. Dicranum strictum, trunk of old ash tree, Hauxton Gravel Pit, Hauxton (29), H.J.B. Birks.
- 29/14. Dicranum polysetum, among dwarf shrubs under young birch, Meathop Moss (69), Wigginton.
- 31/4. Campylopus fragilis, rotting log, Chippenham Fen (29), Adam.
- 31/5. Campylopus pyriformis β var azoricus, 2, 3, 11, 12, 16, 17, 22, 28, 30, 38, 46, 49, 54, 58, 61, 62, 67, 83, 86, 98, 101, 104, 105, 108, 109, H.20, H.27, H.35 - new to the British Isles (Corley, 1976); and include two additional records of the variety, which have become available subsequently - peat on blanket bog, Ford Moss (68), Long, 1969, conf. Corley; bare peat bank of drainage ditch, E. side of Scarba (102), Corley, 1976: γ var fallaciosus, 12, 17, 22 - new to the British Isles (Corley, 1976).
- 31/11. Campylopus introflexus, damp heath by Pirton Pool (37), R. Fisk, 1975; heather moorland, Corndavon, Crathie (92), D. Welch, 1976.
- 32/2. Leucobryum juniperoideum, Piddles Wood nr Child Okeford(9), Foster, conf. Corley.
- 35/10. Tortula subulata δ var graeffii, earth overlying basic rock, S.E. end of Loch Loch, 16 km N.E. of Blair Atholl (89), Townsend.
- 35/13. Tortula marginata, sandy grassy bank in grounds of Chiswick House (21), Milnes-Smith & Gardiner.
- 35/14. Tortula stanfordensis, ground in gateway of garden, Whittlesford Mill (29), Whitehouse.
- 35/15. Tortula vahlana, clay bank at edge of runnel at cliff top, Houn's-tout Cliff, Purbeck (9), Corley.
- 36/1. Aloina brevirostris, disused rail track, Spetisbury (9), Milnes-Smith, 1972; disused chalk quarry N. of Oxsted (17), Gardiner, 1973; bare, slightly puddled chalk earth, Maidenhead Thicket (22), Jones & J.P.M. Brenan, 1950; floor of chalkpit, Cherry Hinton (29), Birks & Duckett, 1966.
- 36/2. Aloina rigida, delete 9, specimen (BBSUK) is incorrectly named; on chalk, Greenhithe (16) in (), E.M. Holmes, 1874 (NMW); Ladeddie (85) in (), J. Fulton, 1891 (E); sand pit nr Dochgarrog, by Inverness (96), U.K. Duncan, 1943.
- 36/4. Aloina aloides, bare chalk, Dean Hill (11), Paton & A. Sowter, 1957. (BBSUK); limestone wall, Mountmellick, nr Owenass River (H.14), A. Cridland, 1956 (BBSUK).
- 40/3. Pottia heimii, foot of sea wall, W. bank of R. Nene, S. of Foul Anchor (29), Adam.

- 40/4. Pottia intermedia, delete H.3, specimen (BBSUK) is incorrectly named.
- 40/6. Pottia crinita α var. crinita, soil-covered ledges among limestone rock nr landing beach, Steephholm Island (6), Appleyard; sheltered bank by sea, Swine Holes, Ailsa Craig (75), Long; wall tops, Baltimore (H.3), Jones, 1934 (BBSUK).
- 40/7. Pottia wilsonii, soil on bank by cliff path, Durlston Head, Swanage (9), Corley.
- 40/12. Pottia bryoides, turf among limestone rocks, Bwrdd Arthur, nr Llanddona (52), Hill.
- 41/2. Phascum cuspidatum β var piliferum, foot of sea wall, W. bank of R. Nene, S. of Foul Anchor (29), Adam.
- 44/4. Barbula hornschurchiana, roadside bank W. of Fife Keith (94), Paton; gravel drive, Kinloch, Loch Teacuis, Morvern, (97), Corley.
- 44/8. Barbula reflexa, rocks by R. Findhorn, nr Mundole quarry (95), Appleyard et al.
- 44/12* Barbula mamillosa sp. nov., 87 (Crundwell, 1976).
- 44/18. Barbula vinealis, carboniferous limestone rocks, Llanymynech Hill (47), Benoit, 1976.
- 45/2. Gymnostomum recurvirostrum, delete 63, locality is in another vice-county, comm. Blockeel.
- 45/3. Gymnostomum calcareum, existing record for 49 is incorrectly named, replace by - limestone ground, Gogarath, Orme peninsula (49), Hill, 1976; Scottish (i.e. v.-c.'s 72-112) distribution must be revised completely (Crundwell & Hill, 1977), and is - Permian sandstone cliffs, Cluden Water (73), H. Milne-Redhead, 1964 (BBSUK); base-rich sandstone sea-cliff, Covesea, W. of Lossiemouth (95), Paton, 1977; calcareous rocks in wood, hillside above Onich (97), Wallace, 1950 (BBSUK); foot of stone wall, Appin House, Appin (98), Wallace, 1949 (BBSUK); earthy crevices of cornstone rocks nr Tirfergus Hill, Campbeltown (101), Kenneth & Stirling, 1966 (BBSUK); damp soil in limestone crevice, nr Bealach an Tarabairt, Garbh Eileach, Garvellach Isles, Firth of Lorn (102), Stirling & Wallace, 1966 (BBSUK); limestone turf, closely rabbit-grazed, Applecross (105), Crundwell, 1952 (GL); base-rich ground nr sea, Strathan Skerray (108), Hill, 1970; mica schist by Loch of Cliff, Unst (112), Hill & Paton, 1974
- 46/1. Gyroweisia tenuis, damp wall, gardens of Hampton Court (21), Gardiner & Milnes-Smith; moist Old Red Sandstone above stream, Gallows Hill, Speymouth Forest (95), Paton.
- 48/2. Anoetangium warburgii sp. nov., 49, 86-90, 92, 96-101, 103-108, 110, 112 (Crundwell & Hill, 1977).
- 51/1. Trichostomum tenuirostre, boulder in stream nr Huntly's Cave, N. of Grantown-on-Spey (95), Paton.

- 52/4. Weissia rutilans, edge of path, Melton Wood nr Doncaster (63), Blockeel.
- 52/5. Weissia tortilis, Shurdington Hill nr Cheltenham (33), H.H. Knight, 1909 (NMW).
- 55/4. Grimmia stricta, rocks on steep slope, old lime workings S.W. of Meikle Ardron, E. of Keith (94), Paton.
- 55/7. Grimmia alpicola α var alpicola, on fossil trees in stream, Upper King Water nr Gilsland (70), Long; rocks by torrent, Grotto Bridge, R. Almond, Craigiehall (84), Long.
- 55/15. Grimmia montana, dry mildly basic rocks, 380 m alt., Glenwhargen Craig, Scaur Water (72), Birks & Birks, 1976.
- 55/26. Grimmia stirtonii, dry basic igneous rocks, Knockdolian Hill, E. of Ballantrae (75), Birks & Birks.
- 55/27. Grimmia muhlenbeckii, basalt rocks, Acharonich, Ulva Ferry, Mull (103), Corley.
- 56/7. Rhacomitrium canescens is now considered to consist of two varieties (Smith, Bull Br. bryol. Soc. 28, 34, 1976). Var. ericoides is the common plant in most of Britain, var. canescens being mainly coastal and apparently calcicole. The varieties are distributed as follows: α canescens, the Warren, East Clevedon (6), Appleyard, 1966; stony path and ride sides, Houghton Wood (9), Jones, 1936; Cliffe Hill (14), W.E. Nicholson, 1895 (CGE); Puttenham Heath (17), Wallace & Crundwell (herb. Crundwell); grassland nr Lakenheath Lodge (26), Whitehouse, 1961; Santon Warren, Brandon (28), Wallace, 1938 (herb. Jones); road cutting, Hockliffe (30), J.H. Tallis, 1956 (BBSUK); Kenfig Burrows (41), S.G. Harrison, 1963 (NMW); Manton Moor (54), G.H. Allison, 1914 (herb. M.R.D. Seaward); on peaty sugar limestone, Widdybank Fell, Teesdale (66), Paton, 1961; dune pasture, Aberlady (82), B.P. Donaldson, 1963 (E); Dunbarnie Links, Largo (85), J.McAndrew, 1906 (E); sand dunes, Barry Sands (90), J.H.G. Peterken, 1947 (BBSUK); calcareous sand dunes nr Mayden Tower, Mornington (H.22), Synnott, 1968 (BBSUK); sands of Quennevais, Jersey (C), Crundwell, 1957 (BBSUK) : β var. ericoides, 2, 3, 11, 12, 14, 16, 17, 25, 27-29, 33-35, 37, 38, 40-45, 48, 49, 52, 54. Records of R. canescens from (55), 56-112, and from Ireland (except H.22) may be presumed to be var. ericoides; the recorder will gladly examine material of var. ericoides from v.-c.'s in southern England and Wales from which it has not yet been verified.
- 58/2A. Funaris pulchella, rock cutting on roadside W. of Fife Keith (94), Paton - new to Scotland.
- 58/4. Funaris fascicularis, cart rut, grassy disused railway cutting, Ruddington (56), Henley; rough grass above salt marsh, Jenny Brown's Point, Silverdale (60), Cocking.
- 60/1. Physcomitrella patens, mud wall of deep ditch nr East Links, Dunbar (82), Long & Chamberlain.

- 68/1. Schistostega pennata, rabbit holes beside cart track; Croes-y-forwyn, nr Eglwysrwrw, Newport (45), O'Shea; damp shaded crevice, sandstone rocks, Hepburn Crags nr Chillingham (68), H.J.B.Birks.
- 71/1. Orthodontium gracile, place 40 in () (Distr. Map, J. Bryol. 9, 401).
- 73/7. Pohlia drummondii, gravel by burn at W. end of Talla Reservoir, Tweedsmuir (78), Long; woodland path above R. Findhorn, S. of Randolph's Leap (95), Paton.
- 73/8. Pohlia gracilis, pathside, S. slope of Ben Vrackie, N. of Pitlochry (89), Paton; roadside, Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton; sandy bank beside Allt Iomadaidh, S.W. of Bridge of Brown (95), Paton.
- 73/10. Pohlia bulbifera, damp sandy soil, old sand workings, Darcy Lever nr Bolton (59), Newton; muddy track, Crimsworth Dean, Hebden Bridge (63), Blockeel; pathside, S. slope of Ben Vrackie, N. of Pitlochry (89), Paton; roadside, Bridge of Derrybeg, S.W. of Charlestown of Aberlour (94), Paton.
- 73/13*. Pohlia pulchella, disused gravel pits, Rudheath (58), Whitehouse & Bloom, 1976.
- 73/13B. Pohlia lutescens, bank of pit, Lady Hughes's Wood, Panshanger, Hertingfordbury (20), Bloom; rabbit hole in Lower Greensand, Gamlingay (29), M.E. Smith.
- 73/14. Pohlia wahlenbergii, ride, Bramfield Wood, Bramfield (20), Bloom.
- 77/20. Bryum creberrimum, ballast on track of disused railway, Llangollen (50), Benoit.
- 77/27. Bryum radiculosum, old wall nr Glenfarg Church (85), Long; crumbling mortar, old wall, N. side of R. Farg, Glenfarg (88), Long; mortar of old wall, Glenmore, Kilmelford (98), Corley.
- 77/28. Bryum microerythrocarpum, peaty soil nr Strines Reservoir, N.W. of Sheffield (63), Blockeel.
- 77/29. Bryum rubens, newly sown lawn, Glenfarclas Distillery, nr Bridge of Avon, Strath Spey (94), Catcheside & Whitehouse.
- 77/29*. Bryum ruderale, arable field, Robin Hood nr Leeds (63), Blockeel; track nr Old Bridge of Tilt, N. of Blair Atholl (89), Townsend; garden path, Ardtornish, Morvern (97), Crundwell; sandy hollow, dunes N.W. of Keoldale, Durness (108), Long.
- 77/30. Bryum klinggraeffii, fallow field nr Hursley, S. of Winchester (11), Richards & Whitehouse; bare earth below scrubby bank nr Chaigley Manor, Hodder Valley nr Higher Hodder Bridge (60), Blockeel; damp soil by burn, N.W. of Wester Deuglie, Ochil Hills (88), Long.
- 77/30*. Bryum violaceum, arable field, Whitgift nr Goole (63), Blockeel; bare soil by track to quarry, Newthorpe nr Garforth (64), Blockeel; newly sown lawn, Glenfarclas Distillery, nr Bridge of Avon, Strath Spey (94), Catcheside & Whitehouse.

- 77/31. Bryum sauteri, side of rut in woodland, Graffridge Wood nr Knebworth (20), Bloom; soil in sheltered gully, Swine Holes, Ailsa Craig (75), Long.
- 77/35. Bryum mildeanum, soil of landslide below basalt cliff, Inninmore Bay, Morvern (97), Corley, conf. Whitehouse.
- 77/35*. Bryum riparium, shaded earthy slope above stream nr Huntly's Cave, N. of Grantown-on-Spey (95), Paton.
- 77/37 Bryum capillare β var rufifolium, remains of wall, Roman villa nr Shirehampton (34), Appleyard; bridge over R. Derwent above Derwent Reservoir (63), Blockeel; dry basic rocks, gully of Bonaly Burn, Pentland Hills (83), Long.
- 77/37C. Bryum flaccidum, sapling in Prunus thicket nr quarry S.E. of Clipsham (55), Long; elders, Brantingham Dale (61), Blockeel; rain-run from main fork of large sycamore nr R. Tilt, 0.5 km S. of Croftmore, Glen Tilt (89), Townsend.
- 77/40. Bryum canariense, calcareous ground nr Durdle Pier, Portland (9), Hill.
- 79/10. Mnium affine, grassland on gravel, Panshanger Park nr Hertingfordbury (20), Bloom, 1976; shaded bank in valley S.W. of Meikle Ardrone, E. of Keith (94), Paton; woodland slope below old railway nr Huntly's Cave, N. of Grantown-on-Spey (95), Paton.
- 79/11. Mnium rugicum, pond margin, "the Serpentine", Hardwick Hall grounds (66), Graham.
- 80/1. Cinclidium stygium, base-rich flush above Allt Iomadaidh, S.W. of Bridge of Brown (95), Paton.
- 81/3. Aulacomnium androgynum, rotten conifer trunks, Allanshaws Reservoir Wood (80), Corner.
- 87/3. Bartramia ithyphylla, rock ledge on cliff, Hardcastle Crag, Hebden Water (63), Blockeel.
- 90/2. Philonotis fontana γ var tomentella, delete 4, 64, 97, 103, 104, 106, H.16, specimens (BBSUK) are wrongly named.
- 90/3. Philonotis caespitosa, spring, W. slope of Titterstone Clee (40), E.W. Jones, 1930; damp shaded footpath under beech, Manderston Estate, Duns (81), Long, 1969; marshy area, edge of L. Corrib, Dooros Peninsula (H.16), Perry, 1968.
- 90/4. Philonotis capillaris, sandy slope nr Randolph's Leap, R. Findhorn (95), Paton.
- 94/1. Ptychomitrium polyphyllum, rocks on steep slope of old lime workings, S.W. of Meikle Ardrone, E. of Keith (94), Paton.
- 97/1. Zygodon viridissimus β var stirtonii, elders on chalk, Panshanger, Hertingfordbury (20), Bloom; γ var vulgaris, old oak, Oakers Wood, Moreton (9), Hill; limestone rocks by stream nr the Forks, Lewis Burn, Kielder Forest (67), Long.

- 98/3. Orthotrichum cupulatum β var nudum, rocks in small stream, Emborough (6), Appleyard, 1974.
- 98/3*. Orthotrichum urnigerum, 97 - new to the British Isles (Appleyard, 1976).
- 98/10. Orthotrichum sprucei, silty trunks of ash and alder on bank of R. Dee near Corwen (48), Benoit.
- 100/1. Fontinalis antipyretica β var gigantea, backwater of R. Bran above Rumbling Bridge, S.W. of Dunkeld (88), Paton: γ var gracilis, small cascade W. of Blackpits Gate, N. of Simonsbath (5), Appleyard.
- 100/2. Fontinalis dolosa is synonym of F. antipyretica, delete entry (Smith, 1976).
- 100/5. Fontinalis dalecarlica, British specimens are all F. squamosa, delete entry (Smith, 1976).
- 102/2. Hedwigia integrifolia, siliceous rocks N.E. of Drumwalt, Mindork Moor (74), Corner.
- 103/1. Cryphaea heteromalla, on elder, Durinemast, Loch Arienas, Morvern (97), Corley.
- 105/1. Antitrichia curtipendula, dry basic igneous rocks, Knockdolian Hill, E. of Ballantrae (75), Birks & Birks, 1976.
- 118/2. Leskea nervosa, remove dagger, place 88 in (); on limestone rocks on shore of mountain loch S. of Braemar (92), Crundwell; basic rock face, N.W. face of Ben Hope (108), Long.
- 120/1. Pseudoleskea catenulata, place 86 in () (Distr. Map, J. Bryol. 9, 404).
- 121/1. Heterocladium heteropterum β var flaccidum, rock face in Allt Breachlaich ravine, L. Tay (88), Long & Chamberlain.
- 123/1. Thuidium abietinum, sandy knoll, Hedderwick Burn mouth, Dunbar (82), Long.
- 123/4. Thuidium delicatulum, chalk grassland, Cocknowle, Purbeck (9), Bloom; grassy dune hollow, Yellow Craig dunes, Dirleton (82), Long.
- 129/4. Amblystegium varium, old stumps in wet alder carr, Witton-le-Wear (66), Graham, 1974.
- 129/5. Amblystegium compactum, ledges in sea caves, Covesea, W. of Lossiemouth (95), Appleyard.
- 130/1. Amblystegiella confervoides, shaded limestone ledge near waterfall, Tarnash, S.E. of Keith (94), Paton.
- 131/1. Drepanocladus aduncus, deep water in dune slacks, North Gare, Hartlepool (66), Wigginton.

- 137/2. Camptothecium lutescens, wall between sea and marsh, Hare Island (H.3), Whelan, 1975.
- 138/5. Brachythecium mildeanum, Frogmore gravel pit, nr Watton at Stone (20), Bloom; Wyck Rissington (33), H.H. Knight, 1927 (CGE); stone in marsh between Ratlinghope and Wentnor (40) T. Laflin, 1946 (CGE); stone by water-filled gravel pit, Kelsey Hill, Keyingham (61), Appleyard, 1955 (BBSUK); roadside below Gallows Hill, S.E. of Fochabers (95), Paton; wet ground nr Buckie Loch, Culbin Sands (96), Appleyard, 1956; Canna (104), H.M.L. Muggoch, 1937 (GL).
- 139/2. Scleropodium tourretii, stone wall, Talgarth (42), Foster; turf slopes nr lighthouse pier, Ailsa Craig (75), Long.
- 140/3. Cirriphyllum crassinervium, soil on basic boulders by stream, Brantwood Park, Cheadle (58), Newton; rocks nr Randolph's Leap, R. Findhorn (95), Paton.
- 143/1. Pterigynandrum filiforme, exposed vertical rocks, head of corrie, S.W. of Beinn Spionnaidh (108), Long.
- 144/2. Orthothecium intricatum, rock crevice by moorland stream, Abbey Brook, Derwent valley, W. of Sheffield (63), Blockeel.
- 145/1. Entodon concinnus, dunes nr Maiden Tower, Mornington (H.22), Synnott.
- 149/4. Plagiothecium denticulatum β var obtusifolium, among boulders, Allt Iomadaidh, nr Bridge of Brown (95), Appleyard.
- 149/6. Plagiothecium curvifolium, rotting conifer trunks, Allanshaws Reservoir Wood (80), Corner.
- 149/7. Plagiothecium laetum, stump on wooded slope above stream nr Huntly's Cave, N. of Grantown-on-Spey (95), Paton; base of boulder on edge of wood, W. of Coillaig, S.W. of Kilchrenan (98), Paton.
- 149/10. Plagiothecium succulentum, shaded rocks beside Binn Burn, E. of Glen Farg, S. of Perth (85), Paton.
- 151/1. Pyralisia polyantha, old sycamore in grounds of Kindrogan Field Centre, N.E. of Pitlochry (89), Paton.
- 152/1. Platygyrium repens, dead tree bole in damp wooded valley nr West Cranmore, Shepton Mallet (6), Long; trunks of fallen ash and willow trees in wet woodland nr Whittlesford (29), H.J.B. Birks.
- 154/1. Hypnum cupressiforme δ var mamillatum, on elder, Panshanger Park (20), Bloom; η var lacunosum, clay banks, N.W. side of Hare Island (H.3), Whelan, 1975.

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KEY TO BRITISH SELIGERIA SPECIES AND RELATED GENERA
BASED ON VEGETATIVE CHARACTERS.

By M. F. V. CORLEY

While the identification of Seligeria specimens with mature fruit is reasonably straightforward, when fruit is absent or immature identification becomes very difficult. It is hoped that the following key will prove useful in such cases. Unfortunately S. pusilla and S. acutifolia cannot be separated on leaf characters. The key includes Brachydontium and Trochobryum.

- | | |
|---|--|
| 1. Leaves trifarious | <u>S. trifaria</u> |
| Leaves spirally arranged | 2 |
| 2. Stems several millimetres high | <u>S. oelandica</u> |
| Stems exceedingly short | 3 |
| 3. Nerve excurrent, filling subula | 4 |
| Nerve not excurrent, not filling subula | 9 |
| 4. Leaves 3 - 6.5 mm long, base short, wide, abruptly
contracted to thread-like subula | <u>Trochobryum carniolicum</u> |
| Leaves under 2 mm long, not shaped as above | 5 |
| 5. Leaves toothed on lower third of margin | <u>S. donniana</u> |
| Leaves entire | 6 |
| 6. Leaves with short obtuse subula | <u>S. calcarea</u> |
| Leaves with long slender subula | 7 |
| 7. Marginal cells in subula bistratose | <u>Brachydontium trichodes</u> |
| Marginal cells in subula unistratose | 8 |
| 8. Cells thin-walled, plant growing on chalk | <u>S. paucifolia</u> |
| Cells thick-walled, plants on various rock types, but
never chalk | <u>S. recurvata</u> |
| 9. Leaf apex obtuse | <u>S. diversifolia</u> |
| Leaf apex acute | <u>S. pusilla</u> and <u>S. acutifolia</u> |

A MODERN FIND OF PHILONOTIS MARCHICA (Hedw.) Brid. IN THE ISLE OF WIGHT.

In March 1978 I received Philonotis material collected by Mrs. L. Snow from wet detritus at the base of a cliff at Shanklin. This material is Philonotis marchica. A more detailed account, with illustrations by Mrs. A.M. Padfield, will appear in the Proceedings of the Birmingham Natural History Society for 1979.

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