The British Bryological Society

REPORT FOR 1938.

VOL. IV, PART 2.

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1939.

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Balance from last Account		£117 11 0
Subscriptions, 1938	£33 11 0	
,, 1939 (paid before due)	4 15 7	
Special Donation	15 0	
		39 1 7
Publications sold		1 19 3
		£158 11 10

BALANCE SHEET

LIABILITIES.

Subscriptions (1939) paid before due	£5 10 7
Distribution costs, 1938-39 (estimated)	3 0 0
Printing Report, 1938 (estimated)	20 0 0
Balance (excess of Assets over Liabilities)	98 17 4
	£127 7 11

Examined and found correct.—J. Y. ELDER,

Barclays Bank, Ltd., Berwick-on-Tweed.

23rd January, 1939.

ACCOUNT for 1938.

EXPENDITURE.

Printing Report, 1937	£21	11	3
,, Circulars	1	10	0
Stationery	1	2	3
Distribution Costs, 1937-38	3	0	8
Secretary's Expenses	2	3	9
Treasurer's ,, ...	1	9	11
Librarian's ,, ...		3	4
Excursion Secretary's Expenses		8	6
Subscription to *Bryologist*		9	3
Balance on hand, 31st December, 1938	126	12	11
	£158	11	10

31st DECEMBER, 1938.

ASSETS.

Cash in hand	£126	12	11
Subscriptions in arrear (£1 15s.), estimated to produce		15	0
	£127	7	11

J. B. DUNCAN, *Treasurer.*

N.B.—Subscriptions, 10/- per annum, Foreign and Colonial Members, 5/-, **should be paid not later than 31st March, each year.**

REPORT OF SECRETARY.

The Society is greatly indebted to Mr. Duncan for having served it so cheerfully and efficiently as President, and the members offer him their sincere thanks. In 1939 Miss E. Armitage becomes President and Mr. Sherrin Vice-President.

Dr. Trotter has done most excellent work as Bibliographer for some years, and it was with much regret that the Society heard that he wished to resign owing to pressure of other engagements. Mr. Marquand, having offered at the last General Meeting to take up the work, his offer was very gladly accepted.

Mr. Rilstone has kindly undertaken the refereeing formerly performed by Mr. Richards.

Mr. Young, with the help of Mr. Lee, is Excursion Secretary for the 1939 meeting.

The rest of the Officers are the same as before.

To the Distributors and Referees who have done such strenuous work for the Society in the past year our grateful thanks are due.

Again it is unfortunate that the number of members leaving us for various reasons is rather larger than that of those joining us during the past year, but there are good grounds for thinking that some of the new members will be a very useful addition to our working strength. There are now 102 members as compared with 107 last year.

The 1938 meeting at Llangollen was a very pleasant occasion, though the plants seen and gathered were not so rare and interesting as many found the previous year in Ireland.

Fort William is regarded as an excellent centre and it is hoped will attract a large number of our members at the end of June this year. An attempt was made to arrange to hold the meeting in August, but our Excursion Secretaries found this too difficult owing to accommodation at hotels and on account of the shooting. This will disappoint people who cannot take their holidays so early, but it seems unavoidable in the case of Scotland.

A larger number of packets of sphagna has been contributed or distribution than last year, 513 instead of 421; two members have failed to contribute who sent in specimens last year, but four have sent in packets now who gave us nothing at that time. For true mosses there has been an increase of the number of packets from 1644 to 1902, a considerable advance on last year.

Judging from the number of packets of hepatics that were received to be distributed, the collecting of these plants is on the wane. The Distributor in his report mentions a small diminution in the number, but this is on top of a large reduction of a year ago. Will those who forward specimens for distribution kindly read the Reports of the Distributors, where they will find a few criticisms of the packets received. These criticisms, if attended to, would improve the specimens finally received by members.

All of us are indebted to Mr. Horsley for so willingly undertaking the compiling of the list of sphagna and mosses that arrived for distribution. This has usually been carried out by Mr. Albrecht, but he is unfortunately unable to perform it this time. One difficulty Mr. Horsley encountered was connected with the names of little-known places, which were unreadable on some of the packets. This necessitated recourse to an atlas and much time was wasted. He suggests the writing of such names in block capitals.

Mr. Dixon has a paper in this Report on the revised nomenclature of our British Mosses. It is hoped to incorporate the suggestions made in it in the next edition of the Census Catalogue. In the meantime, members might like to copy the new names into their present Catalogues and use them on the packets sent in next year, with or without the names to which we are accustomed.

Members are again reminded of the two periodicals received by the Society, the *Revue Bryologique* and *The Bryologist*, particulars of which will be found on the inside cover of this Report. They can be borrowed by applying to Mr. Sherrin. On the same page there recurs the notice about our Moss Herbarium, specimens of which may be had on loan.

At the end of this Part is a list of the few books on Mosses and Hepatics that can be borrowed from the Society's library.

A. THOMPSON.

March, 1939.

REPORT OF THE ANNUAL MEETING, 1938.

By ELEONORA ARMITAGE.

The British Bryological Society held its Annual Meeting and Excursion at Llangollen, Denbighshire, from August 27 to September 3, 1938. Mr. J. B. Duncan, President and Treasurer, Miss E. Armitage, Vice-President, Mr. A. Thompson, Secretary, Mr. W. R. Sherrin, Librarian, and upwards of 25 members and friends were present, including a distinguished American bryologist, Dr. Winona H. Welch, of De Pauw University, Indiana, U.S.A., who was visiting the principal European Herbaria to further her work of monographing the Fontinalaceae of Europe and America.

The rambles were principally in the County of Denbigh (v.c. 50), but Montgomeryshire (v.c. 47), Merionethshire (v.c. 48), and Shropshire (v.c. 40) were also visited. Many mosses and hepatics were met with, but save in Sphagna not many new records were made, as, except in v.c. 47, the ground had been thoroughly worked by such veterans as S. J. Owen, T. Barker, and D. A. Jones.

The first afternoon was spent exploring the rocky bed of the Dee near Llangollen, where, owing to the lowness of the river, access was gained to rocks which are usually submerged, where *Madotheca Porella* was found, and on dry rocks *Grimmia leucophaea*.

Next day there was a long excursion in cars through Chirk and Llan Rhaiadr, where we were indebted to Dr. H. Hamshaw Thomas for acting as our guide. The long narrow valley ends in the high falls of Pistyll Rhaiadr. A large volume of peat-brown water falls over an imposing rock-wall and is spanned by a natural arch of rock. The stream here divides the Counties of Denbigh and Montgomery. Then we drove by Llangunog up the Tanat Valley, which has recently been made accessible by a fine road to the top of the pass. Here is a grand view of Snowdonia, with masses of purple heath and golden tussocks of *Ulex Gallii* in the foreground. This area, with a rocky stream and gorge should yield bryophytes of interest if a long day could be spent there.

On Tuesday the Llangollen district was farther explored, up the long wooded valley to " World's End." On the left are Ordovician rocks, and the fine limestone escarpment of the

Eglwyseg Rocks is on the right. Wednesday was spent beyond Llanarmon up Swch-cae-Rhiw, along a steep bracken-clad valley to the fine rocky gorge of the Ceiriog Falls. On Thursday we had a long drive beyond Bala, climbing up to the high pass of Bwlch-y-Groes (1,750 ft.) ; the road was rough and narrow, with much loose scree. Having reached the small plateau we explored the extensive boggy moor-land with rough peat bogs, under the great bulk of Aran Mawddwy, nearly 3,000 ft. ; this hid Snowdon from us, but we had a grand view from the Arenigs to Plinlimmon.

Excursions on the last day, Sept. 2, included one to Tal-y-llyn Lake (v.c. 48) and another to Whixall Moss (v.c. 40), an extensive bog, which has become drier of late years owing to drain-cutting and peat removal.

The Annual Meeting was held on Tuesday, August 30th. Miss E. Armitage succeeds Mr. J. B. Duncan as President in 1939. Mr. W. R. Sherrin was elected Vice-President. Mr. C. V. B. Marquand succeeds Dr. L. B. C. Trotter, who has given several years' much-appreciated service as Bibliographer. Mr. A. Thompson continues as Secretary. It is proposed to hold the 1939 Meeting at Fort William in June.

The List of Sphagna is collated by Mr. A. Thompson.

SPHAGNA.

The specimens of Sphagna collected during the excursion were poor and small and the number of species and varieties noted rather few.

The following are all new vice-county records :—

S. fimbriatum var. *validius*, Ceiriog Ddu (50) ; var. *intermedium*, Whixall Moss (40).

S. Girgensohnii var. *microcephalum*, Tanat Valley (47).

S. Warnstorfii, Ceiriog Ddu (50).

S. *rubellum*, Cyrn-y-Brain (50).

S. squarrosum var. *subsquarrosum*, Tanat Valley (47).

S. teres var. *subteres*, Ceiriog Ddu (50).

S. amblyphyllum var. *macrophyllum*, Tanat Valley (47) ; Bwlch-y-groes (48) ; Ceiriog Ddu (50) ;
var. *mesophyllum*, Bwlch-y-groes (47) ; Ceiriog Ddu (50).

S. pulchrum, near Bwlch-y-groes (47) ; Cyrn-y-Brain and Ceiriog Ddu (50).

S. recurvum var. *majus*, Tanat Valley (47) ;
var. *robustum*, Ceiriog Ddu (50).

S. fallax var. *laxifolium*, Tanat Valley (47).

S. cuspidatum var. *falcatum*, Whixall Moss (40); Bwlch-y-groes (47);

var. *submersum*, Whixall Moss (40);

var. *plumosum*, Whixall Moss (40).

S. subsecundum var. *intermedium*, Ceiriog Ddu (50).

S. inundatum var. *robustum*, Ceiriog Ddu (50);

var. *eurycladum*, Ceiriog Ddu (50); S. of Bwlch-y-groes (47);

var. *densum*, Tanat Valley (47);

var. *lancifolium*, south of Bwlch-y-groes (47); Cyrn-y-Brain and Ceiriog Ddu (50);

var. *diversifolium*, Pistyll Rhaiadr (47).

S. auriculatum var. *ovatum*, south of Bwlch-y-groes (47); Cyrn-y-Brain (50);

var. *laxifolium*, south of Bwlch-y-groes (47); Bwlch-y-groes (48);

var. *canovirescens*, Pistyll Rhaiadr (47);

var. *submersum*, Pistyll Rhaiadr (47).

S. crassicladum, Ceiriog Ddu (50).

S. contortum, Tanat Valley (47).

S. papillosum var. *normale*, Whixall Moss (40); Tanat Valley (47);

var. *sublaeve*, Whixall Moss (40).

TRUE MOSSES*.

Andreaea petrophila and *Rothii*, 50. *Oligotrichum hercynicum*, 47. *Polytrichum urnigerum*, 47; *P. strictum*, 40*, 47*, 48; *P. formosum*, 50. *Pleuridium axillare*, 48, 50. *Rhabdoweisia fugax*, 50, and *R. denticulata*, 50. *Cynodontium Bruntoni*, 47*, 50. *Dichodontium flavescens*, 50. *Dicranella cerviculata*, 40; *D. rufescens*, 50; *D. squarrosa*, 47, 50. *Dicranum fuscescens*, 47*. *Campylopus atrovirens*, 47. *Fissidens decipiens*, 50. *Grimmia trichophylla*, 50; *G. Hartmani*, 50; *G. retracta*, 50; *G. Doniana*, 47; *G. commutata*, 50; *G. leucophaea*, 50. *Rhacomitrium protensum*, 47. *Weisia rupestris*, 50. *Trichostomum crispulum*, 50; *T. mutabile*, 50, and var. *cophocarpum*, 50; *T. tenuirostre*, 50, var. *Holtii*, 50*; *T. tortuosum*, 50. *Zygodon Mougeotii*, 50. *Funaria ericetorum* and *F. Templetoni*, 47. *Webera annotina* var. *erecta*, 47*, 50*. *Bryum filiforme*, 47*. *B. alpinum*, 47, var. *viride*,

50. *Mnium serratum*, 50, and *M. cinclidioides*, 48. *Neckera crispa* var. *falcata*, 50. *Pterogonium gracile*, 50. *Heterocladium heteropterum*, 47, 50, var. *fallax*, 50. *Oorthothecium intricatum*, 50. *Hyocomium flagellare*, 50. *Eurhynchium myosuroides* var. *rivulare*, 47, 50. *Plagiothecium elegans*, 47. *Amblystegium irriguum*, 50. *Hypnum Patientiae*, 50. *H. ochraceum*, 47, 50.

HEPATICS.

Aneura pinguis var. *angustior*, 50*. *Metzgeria pubescens*, 50. *Marsupella Pearsoni*, 48 ; *M. aquatica*, 47*, 48. *Alicularia compressa*, 47*, and *A. scalaris* var. *procerior*, 47*. *Eucalyx obovatus*, 47*. *Aplozia cordifolia*, 47*, 50. *Lophozia ventricosa*, 48, 50 ; *L. incisa*, 48, 50 ; *L. quinquedentata*, 50 ; *L. Floerkii*, 47, 50. *Plagiochila asplenioides* var. *minor* forma *laxa*, 50. *Leptoscyphus Taylori*, 48 ; *L. anomalus*, 40*, 48. *Chiloscyphus polyanthus*, 50. *Saccogyna viticulosa*, 50*. *Cephalozia connivens*, 40. *Nowellia curvifolia*, 50. *Cephaloziella Starkii*, 50. *Odontoschisma Sphagni*, 48. *Lepidozia reptans*, 47, 48, 50. *L. Pearsoni*, 50. *Ptilidium ciliare*, 47, 50. *Scapania aspera*, 50 ; *S. nemorosa*, 47* ; *S. dentata*, 47*, var. *ambigua*, 47*, 50* ; *S. intermedia*, 47* ; *S. undulata*, 47 ; *S. irrigua*, 50. *Madotheca Porella*, 50. *Cololejeunia calcarea*, 50. *Lejeunea patens*, 50.

* Only plants of some interest are included, new V.C. records are starred.

REPORT OF DISTRIBUTORS (Mosses).

We have pleasure in chronicling a small increase in the amount of material sent in for distribution. Some very acceptable gatherings have come in from members both in this country and abroad. The Sphagna this year comprise several much desired species and varieties, all beautifully prepared, a proportion of them coming from our European members. Dr. A. J. Grout has sent some valuable specimens from the United States.

Some members have not yet supplied the Distributors with details of the species they are in need of, either to fill gaps in their herbaria or for special study. There are many who expect to receive a yearly parcel, but leave it to the Distributors to decide what shall be sent. This is, of course, scarcely satisfactory from some points of view, as they receive what is left after the members who send lists are supplied.

The Referees report that almost all the specimens checked were well prepared, but in a few cases there was scarcely enough material in a packet to warrant it being called a "specimen." Some of the paper used for packeting is too flimsy, and crumples easily. The name as well as the vice-comital number of the county should be given on every packet. These vice-comital numbers mean little, if anything, to our foreign members, so we should never omit the name of the county.

Thanks are due to the Referees for their usual good services. Mr. Sherrin has again provided facilities for carrying out the later part of the distribution and we have to thank Mr. Horsley for compiling the detailed Report on the Mosses.

A. MURIEL SAUNDERS.
EDWARD C. WALLACE.

March 1*st*, 1939.

REPORT OF DISTRIBUTOR (Hepatics).

The number of packets sent in for distribution this year is 571 from 16 members, compared with 619 packets from 18 members last year. Thus the decrease is only slight, compared with the nearly 50 per cent. drop recorded in last year's report.

The Referees again comment favourably on the packeting and accuracy in naming of the specimens sent in. The fact that there are only two remarks from the Referee speaks for itself.

C. M. BEDFORD.

Taunton.

March 9*th*, 1939.

MOSSES AND HEPATICS SENT FOR DISTRIBUTION, 1937.

	Sphagna	*True Mosses*	*Hepatics*	*Total*
Miss E. Armitage	—	38	51	89
Mr. E. B. Bartram (U.S.A.)	—	36	—	36
Dr. A. Boros (Hungary)	15	110	35	160
Mr. D. B. Bradshaw	—	45	16	61
Miss M. S. Brown	—	22	—	22
Mons. J. Charrier (France)	10	125	71	206
Miss H. A. Chick	—	30	—	30
Miss C. A. Cooper	—	9	—	9
Mr. J. B. Duncan	—	112	22	134
Miss U. Duncan	5	61	—	66
Dr. J. Froelich (Austria)	—	141	43	184
Dr. A. J. Grout (U.S.A.)	—	141	—	141
Mr. J. D. Houston	—	47	—	47
Mr. E. W. Jones	—	56	8	64
Mr. J. R. Lee	24	38	13	75
Miss E. M. Lobley	180	24	16	220
Rev. W. R. Megaw	—	10	—	10
Mr. F. E. Milsom	—	58	12	70
Mr. W. E. Nicholson	—	50	50	100
Dr. P. W. M. Richards	—	24	—	24
Mr. F. Rilstone	10	—	—	10
Miss A. M. Saunders	—	12	—	12
Herr A. Schumacher (Germany)	80	110	82	272
Capt. C. Stenholm (Sweden)	9	94	—	103
Herr P. Störmer (Norway)	3	39	19	61
Mr. A. Thompson	133	8	—	141
Miss J. S. Thomson	—	4	—	4
Mr. W. G. Travis	37	6	—	43
Mr. A. Turner	18	34	11	63
Mr. E. C. Wallace	—	339	92	431
Dr. J. Walton	—	—	30	30
Dr. W. Watson	—	17	—	17
Mrs. A. White	—	62	—	62
	524	1,902	571	2,997

REFEREES.

Mosses :—

Sphagnaceae :—

Acutifolia and Cymbifolia	Mr. HORSLEY.
Rigida, Squarrosa and Cuspidata	Miss LOBLEY.
Subsecunda	Mr. THOMPSON.
Referee-in-Chief	Mr. SHERRIN.

True Mosses :—

Andreacaeæ to Grimmiaceæ	Mr. CROSLAND.
Tortulaceæ to Orthotrichaceæ	Dr. WATSON.
Schistostegaceæ to Leskeaceæ (except Bryum)	Mr. RILSTONE.
Hypnaceæ	Mr. J. B. DUNCAN.
North American Mosses	Mr. SHERRIN.
European Mosses and British species of Bryum	Mr. NICHOLSON.
Non-European (except North American Mosses) and Referee-in-Chief	Mr. DIXON.

Hepatics :—

British and European	Mr. MILSOM.
Non-European and Referee-in-Chief	Mr. NICHOLSON

REPORT ON PLANTS SENT IN BY MEMBERS.

(An Asterisk (*) denotes a new Vice-Comital Record.)

SPHAGNA.

Sphagnum fimbriatum Wils., Eglinton Castle Woods, near Kilwinning (75), Sept., 1938, J.R.L.; var. *validius* Card., Rainford Junction (59), Aug., 1924, J. A. Wheldon, com. W.G.T.; Ceiriog Ddu (50*), Aug., 1938, A.Th.; var. *intermedium* Russ., Whixall Moss (40*), Sept., 1938, E.M.L.; Mark of Luce Moss (74*), April, 1937, E.M.L.; Whixall Moss (40*), Sept., 1938, A. Th.; var. *laxifolium* Warnst., Whixall Moss (40*), Sept., 1938, E.M.L.

S. Girgensohnii Russ., near Oslo (Norway), Oct., 1938, P.S.; var. *robustum* Warnst., Sandane (Norway), July, 1938, A.Th.; var. *microcephalum* Warnst., Glen Trool (73*), April, 1937, E.M.L.

S. fuscum Schp., Tanneck, Vogesen (Germany), Sept., 1938, leg. E. Issler, com. A.S.

S. rubellum Wils., Borrowdale (70), Sept., 1937, A.Tu.; Wiehlgebiet, Rheinland (Germany), Oct., 1932, A.S.

S. acutifolium Ehrh., Glen Doll (90), Aug., 1924, leg. D. R. Robertson, com. W.G.T.

S. quinquefarium Lindb., Nantcol Ravine (48), Aug., 1931, D. A. Jones et F.R.; Loch Lomond (99), July, 1938, J.R.L.; Ebbegebirge, Westfalen (Germany), Aug., 1931, A.S.

S. plumulosum Röll., Tanat Valley (47), Aug., 1938, A.Th.; Hallberg, Rheinland (Germany), May, 1929, A.S.

S. molle Sull., var. *molluscoides* Warnst., Glen Trool (73*), April, 1937, E.M.L.; Loch Morar (97*), June, 1937, E.M.L.; Heckberg, Rheinland (Germany), Aug., 1937, A.S.

S. compactum D.C., var. *subsquarrosum* Warnst., Glen Coe (98*), Sept., 1937, E.M.L.; Upper Loch Torridon (105), Sept., 1937, E.M.L.; var. *imbricatum* Warnst., Bröltal, Rheinland (Germany), May, 1937, A.S.

S. strictum Sull., Glen Cluanie (105*), Sept., 1937, E.M.L.; Loch Morar (97), June, 1938, E.M.L.

S. squarrosum Pers., Comit. Szepes (Hungary), Aug., 1938, A.B. "Yes, the var. *spectabile* Russ.," E.M.L.; var. *subsquarrosum* Russ., Tanat Valley (47*), Aug., 1938, E.M.L.

S. teres Ångstr., var. *subteres* Lindb., Loch Bracadale, Skye (104*), June, 1938, E.M.L. ; Grindleford (57), Nov., 1937, A.Th.

S. amblyphyllum Russ., Kalkar, Rheinland (Germany), Aug., 1932, A.S. ; var. *macrophyllum* Warnst., Loch Bracadale, Skye (104*), June, 1938, E.M.L. ; Loweswater, (70*), Sept., 1937. A.Th. ; var. *mesophyllum* Warnst., Glen Trool (73*), April, 1937, E.M.L. ; Ceiriog Ddu (50*), Aug., 1938, A.Th.

S. Dusenii Jens., Hochmoor am Tanneck, Vogesen (Germany), Sept., 1938, leg. E. Issler, com. A.S.

S. pulchrum Warnst., Bwlch-y-groes (47*), Aug., 1938, E.M.L. ; Plockton (105*), Sept., 1937, E.M.L. ; Newlands (70), Sept., 1933, A.Th. ; Ceiriog Ddu (50*), Aug., 1938, A.Th.

S. recurvum P. de Beauv., var. *robustum* Breidl., Sandane (Norway), July, 1938, A.Th. ; var. *majus* Ångstr., Tanat Valley (47*), Aug., 1938, E.M.L. ; Karl's Wark (57), July, 1936, A.Th. ; Mark of Luce Moss (74*), April, 1937, E.M.L. ; Loch Maree (105*), Sept., 1937, E.M.L. ; var. *parvulum* Warnst., Brölgebiet, Rheinland (Germany), Sept., 1927, A.S.

S. fallax Klinggr., Dean Hole, Cowling (63), Aug., 1938, A.Tu. ; var. *laxifolium* W., Tanat Valley (47*), Aug., 1938, A.Th. ; var. *Roellii* Schliep., Hathersage (57), July, 1934, A.Th. ; var. *robustum* W., near Karl's Wark (57), July, 1936, A.Th.

S. cuspidatum Ehrh., var. *falcatum* Russ., Bwlch-y-groes (47*), Aug., 1938, E.M.L. ; Ayle Common (67*), Sept., 1938, E.M.L. ; Mark of Luce Moss (74*), April, 1937, E.M.L. ; Whixall Moss (40*), Sept., 1938, A.Th. ; var. *plumosum* Bryol. germ., Whixall Moss (40*), Sept., 1938, E.M.L. ; Whixall Moss (40*), Sept., 1938, A.Th. ; var. *submersum* Schp., Whixall Moss (40*), Sept., 1938, A.Th. ; var. *serratum* (Aust.), Hatfield Moor, near Doncaster (63), Sept., 1938, A.Th.

S. molluscum Bruch., Hildener Heide, Rheinland (Germany), July, 1935, A.S.

S. obesum Wils., Mark of Luce Moss (74*), April, 1937, E.M.L. ; Thursden, near Burnley (59), July, 1938, A.Tu. ; var. *plumosum* W., Rossie Moor, near Brechin (90*), October, 1938, U.D. ; near var. *plumosum* W., Moel Siabod (49), April, 1933, A.Th. ; var. *sanguineum* W., Tarn Howes (69), Sept., 1935, A.Th. ; var. *mastigocladum* W., Rimington Moor (64*), Oct., 1938, A.Tu.

S. subsecundum Nees, Härjedalen, Lofsdalen (Sweden), July, 1937, C.S. "This is the var. *tenellum* W." A.Th. ; Mark of Luce Moss (74*), April, 1937, E.M.L. ; var. *intermedium* W., Wansfell (69), Aug., 1932, A.Th.

S. inundatum W., Sauchieburn near Fettercairn (91), June, 1937, J.R.L. ; Bardrain Glen (76), June, 1917, J.R.L. "This is var. *lancifolium* W., a new V.C. record." A.Th. ; var. *robustum* (W.) Sherrin, Glen Trool (73*), April, 1937, E.M.L. ; Ceiriog Ddu (50*), Aug., 1938, A.Th. ; near var. *eurycladum* (W.) Sherrin, Sandane, Nordfjord (Norway), July, 1938, A.Th. ; var. *densum* (W.) Sherrin, Skeabost, Skye (104*), June, 1938, E.M.L. ; var. *lancifolium* W., Ceiriog Ddu (50*), Aug., 1938, E.M.L. ; same, A.Th. ; Loch Bracadale, Skye (104*), June, 1938, E.M.L. ; Mark of Luce Moss (74*), April, 1937, E.M.L. ; Killarney (I.2), Aug., 1935, A.Th. ; Bretton Clough (57), May, 1932, A.Th. ; var. *diversifolium* W., Pistyll Rhaiadr (47*), Aug., 1938, E.M.L. ; Matley Bog, New Forest (11), April, 1936, A.Th. ; Loch Morar, Westerness (97*), June, 1938, E.M.L.

S. auriculatum Schp., Mark of Luce Moss (74*), April, 1937, Glen Trool (73), April, 1937, E.M.L. ; Tanat Valley (47*), Aug., 1938, E.M.L. ; critical form with very variable number of pores in the branch leaves, numerous to few on convex side, form produced by habitat, Gutmannseichen, Brölgebiet, Rheinland (Germany), Nov., 1925, A.S. ; Boulsworth, near Colne (59*), Aug., 1938, A.Tu. ; var. *ovatum* W., Silberkuhle near Eckenhagen, Rheinland (Germany), July, 1929, A.S. ; south of Bwlch-y-groes (47*), Aug., 1938, E.M.L. ; Ardlui, Loch Lomond (99*), June, 1938, E.M.L. ; Newlands (70), Sept., 1933, A.Th. ; Haugsvarden, Nordfjord (Norway), July, 1938, A.Th. ; var. *submersum* W., Rimington Moor (64), A.Tu. ; Glen Trool (73*), April, 1937, E.M.L. ; Pistyll Rhaiadr (47), Aug., 1938, E.M.L. ; var. *plumosum* W., High Raise (69*), Sept., 1935, A.Th.

S. aquatile W., Machecoul, Loire Infre. (France), May, 1937, J.C. "This is better named *S. auriculatum* Schp. It is near the var. *submersum* W." A.Th. ; var. *sanguinale* W., Tighnabruaich (98), March, 1921, J.R.L., "is *S. auriculatum* Schp., near var. *ovatum* W." A.Th. ; Craigmaddie Moor (86), June, 1917, J.R.L., "This is *S. auriculatum* var. *ovatum*," A.Th.

S. crassicladum W., var. *magnifolium* W., Blacka Moor (57), Aug., 1938, A.Th. ; Sandane, Nordfjord (Norway), July, 1938, A.Th. ; Loweswater (70*), Sept., 1937, A.Th. ; var. *intermdium* W., near Sidmouth (3*), April, 1938, A.Th.

S. contortum Schultz, White Moss, Rydal (69), Aug., 1936, A.Th.

S. imbricatum Hornsch., Black Mount (98), Sept., 1937, E.M.L. ; Glen Cluanie (105*), Sept., 1937, E.M.L.

S. papillosum Lindb., var. *sublaeve* Limpr., Fliegenberg, Rheinland (Germany), Sept., 1929, A.S. ; Sandane (Norway), Sept., 1936, A.Th.

S. cymbifolium Ehrh., Glen Doll (90), 1924, leg. D. R. Robertson, com. W.G.T. ; Wiehlgebiet, Rheinland (Germany), Oct., 1932, A.S. ; Comit. Zala (Hungary), Aug., 1923, A.B.

S. magellanicum Brid., Sandane (Norway), Aug., 1936, A.Th. ; Comit. Lipto (Hungary), Aug., 1938, A.B.

TRUE MOSSES.

EUROPEAN (British and Continental).

Andreaea petrophila Ehrh., Burbach, Westenwald (Germany), Oct., 1932, A.S. ; var. *alpestris* Thed., Ben Nevis (97), July, 1938, E.C.W.

A. nivalis Hook., Cairngorm (96), June, 1930, J.B.D. ; Ben Nevis (97), Aug., 1909, leg. J. C. Wilson et S. J. Owen, com. J.B.D. ; Ben Nevis (97), July, 1938, E.C.W. ; var. *fuscescens* Hook., Ben Nevis (97), July, 1938, E.C.W.

Tetraphis pellucida Hedw., c.fr., Oslo (Norway), Oct., 1938, P.S.

T. Browniana Grev., Hell Ghyll (69), June, 1938, W.R.M.

Catharinea undulata Web. & M., var. *Haussknechtii* Dixon, Szarvashaza (Hungary), July, 1938, A.B.

C. tenella Roehl., Stallberg, Rheinland (Germany), Dec., 1934, A.S.

Polytrichum nanum Neck., Deux Sèvres (France), Mar., 1937, J.C. ; Waldbröl, Rheinland (Germany), Mar., 1930, A.S.

P. aloides Hedw., Vendée (France), April, 1937, J.C.

P. strictum Banks, Whixall Moss (40*), Sept., 1938, E.A. ; Bwlch-y-Groes (48), Sept., 1938, E.A.

P. gracile Dicks., Wiehltal, Rheinland (Germany), June, 1932, A.S.

P. formosum Hedw., Llangollen (50), Aug., 1938, E.A.

P. commune L., var *uliginosum* Hüb., Oslo (Norway), Oct., 1938, P.S.

Diphyscium foliosum Mohr, Vendée (France), April, 1937, J.C.

Archidium alternifolium Schp., Kilrea (I.40), June, 1938, J.D.H.

Ditrichum homomallum Hampe, Glenshane Pass (I.40), July, 1938, J.D.H.

D. flexicaule Hampe, Upper Wharfedale (64), Sept., 1938, A.Tu.

D. pallidum (Schreb.) Hampe, St. Hilaire du Bois, Vendée (France), April, 1937, J.C.

Swartzia montana Lindb., c.fr., Bolton Woods (64), Oct., 1934, A.W. ; var. *compacta* (Hübn.) ?, Glen Lyon (88), July, 1938, E.C.W. " Material variable and not very well marked, even granting status to var. *compacta*. Should call it one of the more compact forms of the type," F.C. " I agree with

Crosland that this will not pass as the variety. I have gathered it once abroad. It is a very small starved form with very short almost erect leaves," J.B.D.

Seligeria pusilla B. & S., c.fr., Hilm (Austria), Sept., 1937, J.F.

S. paucifolia Carruth., Linch Down (13), April, 1938, E.C.W.

S. recurvata B. & S., Bröltal, Rheinland (Germany), May, 1936, A.S.

Saelania caesia Lindb., c.fr., Orhegyalja (Hungary), Aug., 1937, A.B.

Ceratodon chloropus Brid., Clevedon (6), May, 1929, leg. C.H.B., com. J.B.D. "Very scarce in some of the packets, but present in all," F.C.

Rhabdoweisia crenulata Jameson, Great Langdale (69), July, 1938, U.D.

Cynodontium virens Schp., Meall Ghaordie, Glen Lyon (88), July, 1938, E.C.W. "I consider this to be *C. Wahlenbergii* Ren. et Card. Most of the leaves are suddenly contracted from the base ; also the smallness of the plants is in favour of *Wahlenbergii*," F.C. "This plant may as well pass as *C. Wahlenbergii*. British specimens of *Wahlenbergii* do not compare well with ones I have from N. America, which are very well marked, with wide expanded base suddenly contracted into a long acute subula. Husnot remarks that well-marked forms are found in Europe, but that forms occur which are difficult to assign definitely to *virens* or *Wahlenbergii*. Almost any British specimen of *C. virens* will, I think, show some leaves which have very decidedly expanded bases that suggest *Wahlenbergii*," J.B.D. "The *Cynodontium* is undoubtedly *Wahlenbergii*. The leaf-base, broader above, and the long, fine entire subula, are decisive," H.N.D.

Dichodontium pellucidum Schp., c.fr., Carntoghes (I.40), May, 1914, J.D.H.

Dicranella crispa Schp., Jamtland (Sweden), July, 1936, C.S.

D. secunda Lindb., Achnasheen (105*), Sept., 1937, E.M.L.

D. rufescens Schp., Omassa (Hungary), Sept., 1937, A.B.

D. varia Schp., Ecchinswell (12), Sept., 1937, E.C.W.

D. Schreberi Schp., Burnley (59), July, 1938, A.Tu.

D. squarrosa Schp., Oslo (Norway), Oct., 1938, P.S.

Blindia acuta B. & S., Ben Heasgarnich, Glen Lyon (88), July, 1938, E.C.W.

Dicranoweisia crispula Lindb., rocks by Loch Brandy, Angus (90), June, 1938, J.R.L.

Campylopus flexuosus Brid., Bröltal, Rheinland (Germany), Oct., 1927, A.S.

C. setifolius Wils., Tyn-y-groes (48), June, 1931, leg. D. A. Jones, com. J.B.D.

C. brevipilus B. & S., Liphook (12), July, 1938, E.C.W. "Upper leaves shortly hyaline-pointed, and forming a coma; stems sometimes interruptedly tufted; upper areolation narrow and sigmoid, auricles variable, nerve with central row of large guide-cells. This is *C. brevipilus* B. & S.," F.C.; Lochranza, Arran (100), July, 1938, J.R.L.

Dicranodontium longirostre B. & S., Wolfsbruch, Ebbegebirge (Germany), Aug., 1931, A.S.; var. *alpinum* Milde, Ingleborough (64), Aug., 1934, leg. D. A. Jones, com. J.B.D.

Dicranum Starkei W. & M., Steiermark (Austria), no date, J.F.

D. molle Wils., c.fr., Cairngorm (96), June, 1935, P.W.R. "Contrary to custom, the stems are somewhat radiculose," F.C.

D. spurium Hedw., Reichenau (Austria), May, 1872, leg. Juratzka, com. J.F.

D. Bergeri Bland., Ford Moss (68), July, 1930, J.B.D.; Kaltenbrunn (Germany), Sept., 1932, A.S.; Hornisgrinde July, 1935, E.W.J.

D. Bonjeani De Not., var. *rugifolium* Bosw., Rimington Moor (64), April, 1938, A.Tu.

D. scoparium Hedw., Oslo (Norway), Oct., 1938, P.S.; var. *spadiceum* Boul., rocks by Loch Brandy, Angus (90), June, 1938, J.R.L.

D. majus Turn., Vendée (France), April, 1937, J.C.; Szarvashaza (Hungary), July, 1938, A.B. "This species is very scarce in Hungary, which is the eastern limit of its distribution," A.B.

D. fuscescens Turn., Ben Heasgarnich, Glen Lyon (88), July, 1938, E.C.W.; Ben Nevis (97), July, 1938, E.C.W.; Steiermark (Austria), Aug., 1936, J.F.

D. Scottianum Turn., c.fr., Manche (France), April, 1938, E.W.J.

D. strictum Schleich., Abbots Bromley (39), April, 1934, E.W.J.

D. montanum Hedw., Erbach, Odenwald (Germany), Aug., 1935, E.W.J.; Budapest (Hungary), April, 1938, A.B.

D. uncinatum C.M., Cairngorm (96), July, 1938, P.W.R.

Dicranum angustum Lindb., Härjdalen, Lofsdalen (Sweden), July, 1937, C.S.

Fissidens incurvus Starke, c.fr., Hendon (20), Jan., 1933, A.W.

F. rufulus B. & S., Bolton Woods (64), Aug., 1934, J.B.D. ; A.W.

F. osmundoides Hedw., Oslo (Norway), Sept., 1935, P.S.

F. adiantoides Hedw., Haoyn in Frozn (Norway), July, 1937, P.S.

F. decipiens De Not., Ben Lawers (88), Aug., 1903, leg. D. A. Jones et J. A. Wheldon, com. J.B.D. ; Vendée (France), April, 1937, J.C.

Grimmia trichophylla Grev., Pythingdean near Pulborough (13), June, 1938, E.C.W.

G. Hartmani Schp., Loch Duich (105), June, 1938, E.M.L.

G. patens B. & S., Aonach Beag (97), July, 1938, E.C.W. ; Achill Island (I.27), June, 1937, D.B.B.

G. commutata Huebn., Brathay Rocks, near Ambleside (69), May, 1935, leg. C.H.B., com. E.C.W.

G. leucophaea Grev., Llangollen (50), Aug., 1938, E.A. ; Berwyn (50), Aug., 1938, J.B.D.

G. angusta (Hagen) Porh., Undersaken by Heusjon, Jamtland (Sweden), July, 1936, C.S.

G. brunnescens (Limpr.) Par., Noe, Spitzerberg, ca. 250m., Nov., 1937, det. J. Baum., com. J. Froelich.

Rhacomitrium heterostichum Brid., Weissenberg, Rheinland (Germany), March, 1931, A.S.

R. lanuginosum Brid., Heyshott Down (13), April, 1938, E.C.W. ; c.fr., Benbradagh (I.40), Aug., 1938, J.D.H.

R. canescens Brid., Brandon (28), April, 1938, E.C.W. ; " without hair-points," Ben Macdhui (96), Aug., 1923, D.B.B. " A pity the habitat is not stated, otherwise such forms are merely barren curiosities," F.C. ; var. *ericoides* B. & S., Siegtal, Rheinland (Germany), Feb., 1931, A.S.

Hedwigia ciliata Ehrh., Invervar, Glen Lyon (88), July, 1938, E.C.W. " *H. ciliata* type, with hair-point handsomely developed : very good specimens," F.C.

H. imberbis Spruce, Beddgelert (49), June, 1938, E.W.J.

Pottia recta Mitt., Reigate (17), Nov., 1938, A.M.S. et U.D.

P. Heimii Fuernr., Hajdunanas (Hungary), May, 1938, A.B. " Certainly *P. Heimii* because of the manner in which the columella ' pushes up ' the lid, the non-excurrent nerve and the leaves, serrulate at apices and often papillose. The leaves, however, in some of the plants are often much shorter than usual," W.W.

P. crinita Wils., Blackhead (I.39), March, 1916, J.D.H. " Too many packets made of the material," W.W.

P. *Starkeana* C.M., Hundsheim (Austria), Nov., 1937, J.F.

P. lanceolata C.M., Vertesboglar (Hungary), March, 1935, A.B.

Tortula ambigua Ångstr., c.fr., Mildenhall (26), May, 1931, A.W. " Rather scrappy amount," W.W.

T. cuneifolia Roth, Taunton (5), March, 1938, W.W.

T. subulata Hedw., c.fr., Dent-dale (64), Aug., 1934, A.W.

T. ruralis Ehrh., Nagyharsany (Hungary), March., 1925, A.B.

T. princeps De Not., Loire infré. (France), Sept., 1937, J.C.

Barbula lurida Lindb., Vendée (France), Nov., 1937, J.C. " I should prefer to place this with *B. fallax* var. *brevifolia.* The nerve at the base is under 40 microns wide or very little wider. The leaf-apices are too acute for typical *lurida,*" W.W.

B. tophacea Mitt., Vendée (France), June, 1936, J.C. " Similar to those sent last year, and referred to in the report," W.W.

B. Nicholsoni Culmann, River Adur, Partridge Green (13), June, 1938, E.C.W. ; Ninewells (81), April, 1938, J.B.D.

B. revoluta Brid., Dorking (17), March, 1938, E.C.W.

Leptodontium gemmascens Braithw., Stogumber (5), April, 1932, D. A. Jones et W.W., com. W.W.

L. flexifolium Hampe, Pendle Hill (59), July, 1938, A.Tu.

Weisia rostellata Lindb., c.fr., Rostherne Mere (58), A.W. " This is *W. microstoma.* The leaves are usually strongly incurved above, and the capsule too much exserted. Some of the capsules are incurved as in the form which was formerly distinguished as var. *obliqua* C.M.," W.W.

W. calcarea C.M., Loire infre. (France), May, 1937, J.C. " Better placed under the var. *viridula* C.M., as the leaves are short and obtuse," W.W.

W. reflexa Brid., Nuneaton (38), K.E.S.

W. rupestris C.M., Llangollen (50), Aug., 1938, E.A. ; Penyghent (64), Aug., 1934, A.W.

Trichostomum crispulum Bruch, Vendée (France), May, 1937, J.C. ; var. *nigro-viride* Braithw., Grange-over-sands (69), May, 1938, leg. C.H.B., com E.C.W.

T. mutabile Bruch, var. *littorale* Dixon, Upper Loch Torridon (105*), Sept., 1937, E.M.L.

T. tenuirostre Lindb., Ceiriog Falls (50*), Aug., 1938, E.A.; Arrochar (99), May, 1938, E.C.W.

T. hibernicum Dixon, Torc Mtn., Killarney (I.2), Aug., 1935, leg. D. A. Jones et J.B.D., com. J.B.D.

T. tortuosum Dixon, Sulber (64), Sept., 1938, C. A. Cheetham et F.E.M. "This form is found on limestone pavement and scree in North Yorkshire. It has been distributed in the past as var. *fragilifolium* Dixon, but seems worthy of further examination. When growing, it has a very characteristic appearance. The type is not infrequently found growing with it, but intermediates are not found, and the two forms keep quite distinct," F.E.M. "This form cannot very clearly be placed under var. *fragilifolium*, because the leaves are not apparently specially fragile at all," J.B.D. "It is a very marked plant, especially in the erect straight leaves, with points much shorter than in the type. The slender habit, however, is quite in accordance with var. *fragilifolium*, and this is, perhaps, quite as important a character as the fragility of the leaves. Boulay, in his description of var. *fragilifolium*, does not mention the fragility of the leaves. A dozen or more varieties have been described, and they certainly overlap one another. Var. *rigidum* Boul., from the description, is probably this plant. but I have not seen an authenticated specimen. It seems to be as marked a variety as any which has been described, though I should prefer to keep it under var. *fragilifolium* as an aggregate for the slender forms," H.N.D. "The suggested reference of the Sulber plant to var. *rigidum* offers an excellent solution of our difficulties in regard to it. I should hesitate in putting it under var. *fragilifolium*, even as an aggregate : the leaves are no more fragile than in the type, or even less so. Boulay is not the author of the epithet, "*fragilifolia*," and one cannot help thinking that the author attached a great deal of importance to the fragility of the leaves in a plant he called "*fragilifolia*." In the Naturalist, Mr. Cheetham has recently discussed the various forms occurring in the district. He distributed the present form in 1915, 1917, 1926 and 1927," W.W.; "*Tortella tortuosa* Limpr.," Chur (Switzerland), Aug., 1935, A.S. "*T. tortuosum* Dixon," W.W.

Tortella inclinata (Hedw. f.) Limpr., Középadacs, comit. Pest. (Hungary), June, 1934, A.B.

Pleurochaete squarrosa Lindb., Chesil Beach near Wyke (9), June, 1937, F.E.M.; downs above Glynde (14), April, 1938, E.C.W.

Cinclidotus riparius Arnott, Shelsley Beauchamp (37), Oct., 1931, leg. D. A. Jones, com. J.B.D.

Zygodon lapponicus B. and S., Snowdon (49), Aug., 1931, leg. D. A. Jones et J.B.D., com. J.B.D.

Z. Mougeotii B. & S., Hexham (67), Aug., 1935, leg. E.M.L. et H.A.C., com. H.A.C. ; Harter Fell (69), Sept., 1903, leg. J. A. Wheldon, com. W.G.T. ; Oslo (Norway), Oct., 1938, P.S.

Orthotrichum rivulare Turn., Brecon (42), April, 1937, E.W.J.

O. obtusifolium Schrad., Champagnole, Jura (France), July, 1938, E.W.J. " Gemmae oblong, brown, up to 5-septate, often fairly long, 90 by 30 microns," W.W.

Oedipodium Griffithianum Schwaeg., in crevices of granite rocks, with a few young fruit, Carn Mor Dearg by Ben Nevis (97), July, 1938, E.C.W.

Splachnum vasculosum L., Sandane (Norway), July, 1938, A.Th.

Tetraplodon mnioides B .& S., Tatrabarlangliget (Hungary), Aug., 1938, A.B.

Physcomitrium pyriforme Brid., Shalford (17), Mar., 1938, E.C.W.

Funaria ericetorum Dixon, Durfold Wood, near Dunsfold (17), April, 1938, E.C.W.

F. hungarica Boros, Fehér-tó prope Konyári-Sóstó, comit. Bihar, May, 1937, A.B.

Meesia trichodes Spruce, Sands of Barry (90), July, 1938, U.D. " Useful specimens from a lowland locality," E.C.W.

Paludella squarrosa Brid., Hectensee (Austria), May, 1938, J.F.

Aulacomnium turgidum Schwaeg., Stuch an Lochain, Glen Lyon (88), July, 1938, E.C.W.

A. palustre Schwaeg., Scaling (62), Aug., 1935, H.A.C. ; Port Erin (71), July, 1920, D.B.B.

Timmia austriaca Hedw., Salzburg (Austria), Aug., 1878, leg. J. Breidler, com. J.F.

T. comata Lindb. et Arn., Abisko River (Lapland), Aug., 1907, leg. H.N.D. et W.E.N., com. W.E.N.

Conostomum boreale Swartz, Cairngorm (96), June, 1938, P.W.R.

Bartramia Oederi Swartz, Bakonyoszlop (Hungary), March, 1938, A.B.

B. pomiformis Hedw., Invervar, Glen Lyon (88), July, 1938, E.C.W.

B. Halleriana Hedw., Rosenlaui (Switzerland), Sept., 1937, D.B.B. ; Muerren (Switzerland), Sept., 1937, D.B.B.

Philonotis fontana Brid., Hexham (67), Aug., 1935, H.A.C. ; c.fr., Schladming (Austria), Aug., 1936, J.F. ; var. *ampliretis* Dixon, old copper mine, Artro valley (48), May, 1910, leg. D. A. Jones, com. J.B.D.

P. caespitosa Wils., Harlech (48), Oct., 1911, leg. D. A. Jones, com. J.B.D. ; Rydal (69), June, 1934, leg. C.H.B., com. E.C.W.

P. seriata Mitt., Glas Maol (90), July, 1930, J.B.D.

P. calcarea Schp., Llangollen (50), Aug., 1938, D.B.B. ; Felsogalla (Hungary), July, 1937, A.B.

Breutelia arcuata Schp., St. Keverne (1), May, 1933, leg. H.H.K. et W.E.N., com. W.E.N. ; Eshells Moor (67), no date, leg. E.M.L. et H.A.C., com. H.A.C.

Oreas Mielichhoferi Brid., var. *elongata* B. & S., c.fr., rocks above Loch Kander, Glen Callater (92), July, 1930, H.H.K. et J.B.D., com. J.B.D.

Orthodontium gracile Schwaeg., Eridge Rocks (14), March, 1921, W.E.N.

Leptobryum pyriforme Wils., Harjedalen (Sweden), July, 1935, C.S.

Webera annotina Schwaeg., var. *erecta* Correns, Loch Scaven (105), Sept., 1937, E.M.L.

W. proligera Bryhn, Pirbright (17), April, 1938, E.C.W.

W. commutata Schp., Ben More, Perthshire (88), Aug., 1925, D.B.B. " I think correct ; a densely packed growth of slender stems, which matches very well a Cader Idris plant gathered under D. A. Jones' guidance. The similarly crowded slender mountain growth of *W. nutans* has different cells," F.R.

W. gracilis De Not., c.fr., Lungau, Steiermark (Austria), Aug., 1878, leg. J. Breidler, com. J.F.

W. albicans Schp., var. *glacialis* Schp., Schladming, Steiermark (Austria), Aug., 1936, J.F. " This was submitted to Mr. Dixon, who reported : ' I agree with you that the Steiermark plant is not the var. *glacialis*. Nice fruiting *W. albicans* I should call it,' " F.R. ; Harjedalen (Sweden), July, 1935, C.S. " Yes, var. *glacialis*. Mr. Dixon agrees," F.R.

W. calcarea Warnst., bank near the sea, Kennack (1), May, 1933, W.E.N.

Plagiobryum Zierii Lindb., Esk Hause (70), Sept., 1937, A.Tu.

Bryum filiforme Dicks., var. *juliforme* Dixon, Carbis Bay (1), June, 1936, W.E.N.

B. pallens Sw., very slender green form, Llangollen (50), Aug., 1938, E.A. ; Wahner Heide, Rheinland (Germany), Oct., 1931, A.S.

B. cyclophyllum B. & S., shores of Derwentwater near Lodore Falls (70), July, 1919, W.E.N.

B. erythrocarpum Schwaeg., woodland near Plaistow (13), April, 1938, E.C.W.

B. Muehlenbeckii B. & S., Hardanger Fjord (Norway), July, 1900, leg. H.N.D. et W.E.N., com. W.E.N.

B. Mildeanum Jur., Rosthwaite (70), June, 1929, leg. C.H.B., com. E.C.W.

B. roseum Schreb., Oslo (Norway), Oct., 1938, P.S.

Mnium affine Bland., var. *elatum* B. & S., old peat pits, Weston (23), May, 1938, E.W.J.

M. undulatum L., c.fr., Finavon near Forfar (90), April, 1938, U.D. ; Skane (Sweden), June, 1937, C.S.

M. serratum Schrad., Zermatt (Switzerland), June, 1938, D.B.B. "Cells small and angular, and nerve toothed at back in the upper part : it must be *M. orthorrhynchum* B. & S., unless there is a continental plant unknown to me, closely related to that species," F.R. "Cells about 15 microns diameter, very slightly collenchymatous, *M. orthorrhynchum* B. & S. Not likely to be *M. inclinatum* Lindb., distinguished by its short beak of lid," W.W.

M. orthorrhynchum B. & S., limestone ledges, Whernside (64), Sept., 1938, A.Tu.

M. lycopodioides Schwaeg., c.fr., Les Plans, Vaud (Switzerland), July, 1903, W.E.N.

M. stellare Reich., Cold Cotes Moor (64), Aug., 1934, A.W. ; c.fr., Preiner Gscheids (Austria), Nov., 1937, J.F.

M. cinclidioides Huebn., Tal-y-Llyn (48), Sept., 1938, J.B.D. et F.E.M. ; Grasmere (69), July, 1938, U.D.

Fontinalis Camusii Card., Sèvre Boussay, Loire Infre. (France), Sept., 1937, J.C.

Cryphaea heteromalla Mohr, Deux-Sèvres (France), Nov., 1937, J.C.

Neckera pennata Hedw., var. *oligocarpa* Bruch, c.fr., Halmast in S. Land (Norway), May, 1938, P.S. "This gathering was referred to Mr. Nicholson, who reports : 'I should say that this was certainly the plant intended, but, although admittedly close to *N. pennata*, I cannot find that there is any

published authority for so calling it. I have not a copy of Hartmann's Scandinavian Flora (1849), where Bruch appears to have originally described it, but it is described in the Bryologia Europaea as *N. oligocarpa* Nov., which should mean that it was an original description, and that it should in future be cited as *N. oligocarpa* Bry. Eur. or *N. oligocarpa* B. & S. I have a specimen of Schimper's own, labelled as in the latter case, which incidentally agrees well with your plant. The two plants are quite distinct, though closely allied. *N. pennata* is usually, if not always found on trees. *N. oligocarpa* is a rock plant,' " F.R.

N. crispa Hedw., c.fr., Cnap Mor, near Loch Lomond (99), Mar., 1937, J.R.L. ; Glen Loin, Arrochar (99), May, 1938, E.C.W. ; Salonika (Greece), May, 1937, W.G.T. ; var. *falcata* Boul., World's End, Llangollen (50), Aug., 1938, E.A. ; Grindon, near Haydon Bridge (67*), Oct., 1938, E.M.L.

N. pumila Hedw., Treyford (13), April, 1938, E.C.W. ; Deux-Sèvres (France), Feb., 1934, J.C. " Yes, with flagelliform branches, some of the leaves of which have very long points," F.R.

Homalia trichomanoides B. & S., c.fr., Ampfield (11), Jan., 1938, A.W.

Pterygophyllum lucens Brid., Rheinland (Germany), Jan., 1934, A.S.

Leucodon sciuroides Schwaeg., Langdale (69), Sept., 1937, A.Tu.

Antitrichia curtipendula Brid., chalk downs above Heyshott (13), April, 1938, E.C.W. ; Sandane (Norway), July, 1938, A.Th.

Myurella julacea B. & S., Csakbereny (Hungary), April, 1936, A.B.

Anomodon attenuatus Huebn., Rheinland (Germany), March, 1935, A.S. ; Sukoro (Hungary), April, 1938, A.B.

A. viticulosus Hook. & Taylor, c.fr., Sherbourne Park (9), July, 1937, E.W.J.

A. rostratus (Hedw.) Schp., prope Bakonyszentlászló, versus Ördögrét, comit. Veszprem (Hungary), March, 1938, A.B.

Leptodon Smithii Mohr, tree trunks, Rome (Italy), June, 1926, leg. D. A. Jones, com. J.B.D.

Pterigynandrum filiforme Hedw., Invervar, Glen Lyon (88), July, 1937, E.C.W. ; Rosenlaui (Switzerland), June, 1938, D.B.B. ; Koszeg (Hungary), Sept., 1920, A.B. ; var. *heteropterum* B. & S., Ansgor, Glen Lyon (88), July, 1938, E.C.W.

Heterocladium heteropterum B. & S., var. *fallax* Milde, Vendée (France), April, 1937, J.C. "Yes, it has the slender habit, narrow leaves and uniformly short cells of this variety," F.R.

H. Macounii Best, Beinn Narnain (98), May, 1938, E.C.W. "Yes, I think good *H. Macounii*; leaves secund and long pointed, and cells elongate," F.R.

Pseudoleskea atrovirens B. & S., Harjedalen (Sweden), July, 1935, C.S.; Sengenebenberges (Austria), April, 1938, J.F. "Yes, a form with almost smooth leaves," F.R.

P. patens Limpr., Coire Leis, Ben Nevis (97), where I also found it two years ago, on dry sheltered rock face, July, 1938, E.C.W.

P. catenulata B. & S., Kandersteg (Switzerland), May, 1938, U.D.

Thuidium abietinum B. & S., Holton stone-pits (23), Oct., 1938, leg. E.C.W. et E.W.J., com. E.C.W.; Santon Warren, Brandon (28), April, 1938, E.C.W.; Sand hills, Castlerock (I.40), Sept., 1938, J.D.H.

T. hystricosum Mitt., Fawley Mount (11), no date, A.W.; sandhills, Magilligan (I. 40*), Aug., 1937, leg. W.R.M., det. H.N.D., com. W.R.M.; old limestone quarry, Revigny, Marne (France), Aug., 1938, E.W.J.

T. tamariscinum B. & S., Oslo (Norway), Oct., 1938, P.S.

T. delicatulum Mitt., Clapdale (64), Aug., 1934, A.W.

T. recognitum Lindb., Yewbarrow, Grange-over-Sands (69), May, 1938, leg. C.H.B., com. E.C.W.

T. Philiberti Limpr., Boxhill (17), Nov., 1938, leg. A.M.S. et U.D., com. A.M.S.; Foxhole Heath (26). May, 1937, E.C.W.; Aonach Beag above Steall (97*), July, 1938, E.C.W.

Climacium dendroides Web. & Mohr, Frosterley (66), Aug., 1935, leg. E.M.L. et H.A.C., com. H.A.C.; Rheinland (Germany), May, 1930, c.fr., A.S.

Cylindrothecium concinnum Schp., sand-hills, Magilligan (I.40), May, 1938, J.D.H.

Pylaisia polyantha B. & S., c.fr., Halmrast in S. Land (Norway), May, 1938, P.S.

Orthothecium rufescens B. & S., Buckden (64), May, 1937, A.Tu.; Kandersteg (Switzerland), May, 1938, U.D.

O. intricatum B. & S., Llangollen (50), Aug., 1938, E.A.; Oxenber (64), Aug., 1934, A.W.; Bakonybel (Hungary), Oct., 1937, A.B.

Camptothecium lutescens B. & S., Portland (9), April, 1930, H.A.C. ; Rheinland (Germany), Nov., 1929, A.S.

C. nitens Schp., Eshells Moor (67), Aug., 1935, leg. E.M.L. et H.A.C., com. H.A.C.

Brachythecium glareosum B. & S., Lochranza, Arran (100), July, 1938, J.R.L. ; Vendée (France), April, 1937, J.C.

B. albicans B. & S., Charent-infre. (France), Feb., 1936, J.C.

B. rivulare B. & S., Charente-infre. (France), April, 1937, J.C.

B. glaciale B. & S., Aonach Beag (97), July, 1938, E.C.W. ; Ben Nevis (97), July, 1938, E.C.W.

B. velutinum B. & S., Liphook (12), March, 1937, E.C.W.

B. caespitosum Dixon, Stanford Bridge (37), May, 1931, leg. D. A. Jones, com. J.B.D.

Eurhynchium Teesdalei Schp., Strid near Bolton Abbey (64), Aug., 1934, A.W. ; Campsie Glen (86), May, 1937, J.R.L.

E. tenellum Milde, Vendée (France), Nov., 1937, J.C. "One packet contains a good deal of *E. confertum*," J.B.D. ; Felsotarkany (Hungary), Sept., 1937, A.B.

E. myosuroides Schp., Rheinland (Germany), Nov., 1925, A.S.

E. circinatum B. & S., Uphill (6), no date, leg. D. A. Jones, com. J.B.D. ; Vendée (France), Nov., 1937, J.C.

E. strigosum B. & S., Oslo (Norway), Oct., 1938, P.S.

E. striatum B. & S., Oslo (Norway), Oct., 1938, P.S. "A form with very short, broad and obtusely pointed leaves," J.B.D.

E. confertum Milde, Vendée (France), Nov., 1937, J.C.

Plagiothecium elegans Sull., Vendée (France), April, 1937, J.C.

P. Muehlenbeckii B. & S., Meall Ghaordie, Glen Lyon (88), July, 1938, E.C.W.

P. denticulatum B. & S., Invervar, Glen Lyon (88), July, 1938, E.C.W. ; Vendée (France), April, 1937, J.C. ; var. *aptychus* Spruce, Preiner Gscheids (Austria), Nov., 1937, J.F. ; var. *obtusifolium* H. & T., Goteberg (Sweden), Sept., 1936, C.S.

P. latebricola B. & S., forma *gemmascens* Ryan & Hagen, Liphook (12), March, 1937, E.C.W.

Amblystegium compactum Aust., on wet sandstone, Auchmithie, Angus (90*), Aug., 1938, U.D.

A. irriguum B. & S., Shepley (63), Aug., 1936, F.E.M.

A. filicinum De Not., Kyle (105*), June, 1938, E.M.L.; var. *vallisclausae* Dixon, Shipton (33), Jan., 1929, leg. D. A. Jones et H.H.K., com. J.B.D.

Hypnum elodes Spruce, The Umbra (I.40), May, 1938, J.D.H.

H. stellatum Schreb., Jamtland (Sweden), July, 1933, C.S.

H. Halleri Linn. fil., Rosenlaui (Switzerland), Sept., 1937, D.B.B.

H. aduncum Hedw., Freshfield (59), Aug., 1938, J.R.L. "This must, I think, be *H. Sendtneri*," J.B.D. "Certainly *H. Sendtneri*, I think, from size and habit, stout nerve and cells," H.N.D.; var. *paternum* Sanio, Vendée (France), Nov., 1937, J.C. "I should have thought this too slender for var. *paternum*. A rather small form of *pseudofluitans*, I should say," H.N.D.

Drepanocladus Kneiffii (Schp.) Warnst., prope Gyékényes, comit. Somogy, April, 1938, A.B.

Hypnum Sendtneri Schp., Freshfield and Birkdale Sands, Southport (59), Aug., 1938, J.R.L.; Gyékényes (Hungary), April, 1938, A.B. "This very robust form should, I think, be named *H. Wilsoni* Schp.," J.B.D.

H. lycopodioides Schwaeg., Freshfield (59), Aug., 1938, J.R.L.

H. fluitans L., Pisching (Austria), June, 1938, J.F.

H. exannulatum Gümb., var. *purpurascens* Schp., Harjedalen (Sweden), July, 1937, C.S.

H. uncinatum Hedw., c.fr., Ingleton Glens (64), Aug., 1934, A.W.; Oslo (Norway), Oct., 1938, P.S.

H. revolvens Swartz, Bisley Common (17), April, 1938, E.C.W.; Upper Loch Torridon (105*), Sept., 1937, E.M.L.

H. intermedium Lindb., Conford, near Liphook (12*), July, 1938, E.C.W.

H. falcatum Brid., Glen Doll (90), June, 1938, J.R.L.

H. incurvatum Schrad., Ingleton (64), May, 1926, leg. D. A. Jones, com. J.B.D.

H. hamulosum B. & S., Stuchd an Lochain and Meall Ghaordie, Glen Lyon (88), July, 1938, E.C.W.

H. callichroum Brid., Cwm Glas, Snowdon (49), Sept., 1935, E.W.J.

H. procerrimum Mol., Ben Lawers (88), July, 1937, E.C.W. "British specimens of this species have not been distributed

before. It has only been seen a few times on Ben Lawers since its discovery about fifty years ago," E.C.W.

H. molluscum Hedw., Aonach Beag (97), July, 1938, E.C.W.; Rheinland (Germany), Oct., 1925, A.S.; var. *fastigiatum* Bosw., Torc Mtn., Killarney (I.2), Aug., 1935, J.B.D.; Ibid, Aug., 1935, leg. D. A. Jones, com. J.B.D.

H. crista-castrensis L., Arbroath (90), July, 1938, U.D.; Rheinland (Germany), Aug., 1932, A.S.

H. molle Dicks., Cairngorm (96), July, 1938, P.W.R.

H. dilatatum Wils., Grasmere (69), July, 1938, U.D.

H. ochraceum Turn., Ceiriog Falls (50), Aug., 1938, E.A.

H. scorpioides L., Thelnetham Fen (26), June, 1938, E.C.W.; Redgrove Fen (28), April, 1938, E.C.W.; Wien (Austria), June, 1869, leg. Juratzka, com. J.F.

H. stramineum Dicks., Furze Hill, Pirbright (17), April, 1938, E.C.W.

H. cordifolium Hedw., Vendée (France), Sept., 1936, J.C. "These packets contain a very considerable admixture of *H. cuspidatum*," J.B.D.; Rheinland (Germany), June, 1931, A.S.

H. cuspidatum L., Rostanga (Sweden), May, 1933, C.S.

Hylocomium splendens B. & S., by River Wye (36), Aug., 1925, H.A.C.

H. umbratum B. & S., Seatoller (70), Sept., 1935, J.B.D.; Ben Nevis (97), July, 1938, E.C.W.; Aonach Beag (97), July, 1938, E.C.W.

H. brevirostre B. & S., Sherborne (9), July, 1937, E.W.J.; Vendée (France), April, 1937, J.C.

H. rugosum De Not., Witherslack (69), May, 1938, leg. H.H.K. et C.H.B., com. E.C.W.; Magilligan (I.40), April, 1938, J.D.H.

EXTRA-EUROPEAN (Including specimens of European species from countries outside Europe).

Pogonatum Junghuhnianum (Dz. et Mk.) Br. jav., var. *incurvum* Br. jav., Sumatra, Brastagi auf Erde, 1937, leg. G. Overdijkink, det. et com. J.F.

Bruchia Ravenelii Wils., moist soil, cut-over pine lands, Winter Haven, Florida, Feb., 1931, coll. F. W. Gray, det. et com. A.J.G.

Oncophorus Raueii (Aust.) Grout, on wet conglomerate ledges, Greenbrier, Tennessee, alt. 2,700 ft., May, 1938, coll. A. J. Sharp, com. et det. A.J.G.

Dicranum viride (S. & L.) Lindb., on tree, Sackville Valley, Nova Scotia, May, 1938, M.S.B.

D. undulatum Turn. c.fr., Hubbard's Cove, Nova Scotia, July, 1937, M.S.B.

D. Drummondii C.M., c.fr., on humus in woods, Hubbard's Cove, Nova Scotia, Aug., 1937, M.S.B.

Leucophanes nukahivense Besch., Pitcairn Island, 1936, leg. Roy P. Clark, det. et com. E.B.B.

Calymperes tuamotuense Bartr., Pitcairn Island, 1936, leg. Roy P. Clark, det. et com. E.B.B.

C. emersum C. Muell., Ref. 322, on bark of live oak near Myaka City, Florida, April, 1936, A.J.G. Known from the locality in Guatemala and two other localities in Dade Co., Florida. Species in this genus are difficult to distinguish in the field and this is probably passed over as one of the more common species of the family.

C. Richardi C. Muell., Ref. 323, on bark of live oak, near Myaka City, Florida, about 100 ft. from no. 322, April, 1938, coll. A.J.G., det. A.J.G. and R. S. Williams, com. A.J.G. This and the preceding have never been found fruiting in the U.S. These plants are rather depauperate, but it is very difficult to get any considerable quantity from one place.

Anoectangium Peckii Sull., moist crevices of rock, alt. 5,000 ft., Roaring Fork, Mt. Le Conte, Sevier Co., Tennessee, May, 1931. (From second known station, never known to fruit). Coll. et det. A. J. Sharp, com. A.J.G.

Macromitrium mucronifolium Hook. et Grev., on branches of shrubs, Flying Eagle Scout comp., Manatee Co., Florida, Dec., 1935, A.J.G.

Funaria convoluta Hampe, Tuna Canyon, Verdago Hills, Los Angeles Co., California, April, 1931, coll. F. A. MacFadden, (8,114), det. et com A.J.G.

Pohlia commutata Lindb., wet limestone by Lauble River, Bruce Co., Ontario, July, 1932, coll. E.A.M., det. Williams, com. A.J.G.

Mnium Drummondii Bry. Eur., moist shaded places, Hartford, Maine, May, 1938, coll. C. D. Adams, det. C.D.A. et A.J.G., com. A.J.G.

Tricholepis nigrescens (Sw.) Grout. ("The correct name for this is *Papillaria nigrescens* (C.M.) Jaeg.", H.N.D.) Near Manatee, Florida, April, 1926, A.J.G.

Floribundaria floribunda (Dz. et Mk.) Fl., Sumatra, bei Padang, mis. Schild, 1928, det. et com. J.F.

Neckera Douglasii Hook., on limbs of trees and bushes, King's Co., Washington, U.S.A., Jan. and Feb., 1933, coll. et det. J. W. Bailey, com. A.J.G. ; tree trunks near Victoria, Br. Columbia, July, 1930, coll. E. C. Mackenzie, det. et com. A.J.G.

Myurella Careyana Sull., old limestone quarry, Stratton, Vermont, U.S.A., Sept., 1933, A.J.G.

Thelia hirtella (Hedw.) Sull., base of oak, Royal Palm Nurseries, Oneco, Florida, Dec., 1934, coll. et det. A.J.G. ; on bark of trees, Long Island, N.Y., Nov., 1937, coll. M. L. Wickes, det. M.L.W. et A.J.G., com. A.J.G.

Cratoneuron filicinum (L. Hedw.) Roth., var. *aciculinum* (Kindb.) Grout, N. Comb., on stones and old logs in streams, Owen Sound, Ontario, May, 1929. (Two gatherings, both somewhat mixed with *Hygroamblystegium irriguum*). Coll. E.A.M., det. et com. A.J.G.

Eurhynchium oreganum (Sull.) J. & S., on logs beside road near Meadowbrook, north of Seattle, Washington, Dec., 1932, coll. et det. J. W. Bailey, com. A.J.G.

Clasmotodon parvulus (Hpe.) Sull., on tree in swamp, near Lake Okeechobee, Florida, March, 1926, A.J.G.

Rhaphidostegium carolinianum (C.M.) J. et S., moist ledges by roadside between Brevard and Highlands, N. Carolina, April, 1935, A.J.G. ("Synonym : *Sematophyllum carolinianum* (C.M.), E.G.B.," W. R. Sherrin.)

Vesicularia tahitensis (Ångstr.) Broth., Pitcairn Island, 1936, leg. R. P. Clark, det. et com. E.B.B.

HEPATICS European (British and Continental).

Sphaerocarpos Michelii Bellardi, Le Gué de Veluire, Vendée (France), Nov., 1937, J.C.

Riccia Beyrichiana Hampe, Moist ground, Carne Goon, The Lizard (1), Nov., 1938, W.E.N.

R. nigrella D.C., bank near the sea, Penolver, The Lizard (1), Nov., 1938, W.E.N.

R. crystallina L., sandy margin of Ringmere, West Norfolk (28), Aug., 1938, E.C.W.

R. fluitans L., dried up lake bed, Moccas Park, Herefordshire (36), Aug., 1938, E.C.W.; floating on dyke, Pevensey Levels, East Sussex (14), Sept., 1938, E.C.W.

R. Bischoffii Hüben, on earth, Spitzer Berg, Hundsheim (Austria), Nov., 1937, J.F.

R. intumescens Bisch., on earth, Spitzer Berg, Hundsheim (Austria), Nov., 1937, J.F.

R. Baumgartneri Schiffn., on earth, Spitzer Berg, Hundsheim (Austria), Nov., 1937, J.F.

Targionia hypophylla L., on trap cliffs above Glenarbuck House, Bowling, Dumbartonshire (99), March, 1939, J.W.

Reboulia hemisphaerica (L.) Raddi, Verteskozma (Hungary), April, 1938, A.B.

Bucega romanica Radian, Tatra-Nagymorgas (Hungary), Aug., 1938, A.B.

Aneura pinguis (L.) Dum., forma *angustior* Hook., with *Philonotis fontana*; Swch cae Rhiw, Ceiriog Valley, Denbighshire (50*), Aug., 1938, E.A.

Metzgeria conjugata Lindb., Bröltal, Hänscheid, Rheinland (Germany), May, 1931, A.S.; Selfjord (Norway), Aug., 1937, P.S.; rocks, Chantonnay, Vendée (France), April, 1937, J.C.

M. hamata Lindb., wood by the shore of Loch Long, Arrochar, Dumbarton (99), May, 1938, E.C.W.

M. pubescens (Schrank) Raddi, shady limestone, World's End, Eglwyseg Rocks, near Llangollen, Denbighshire (50), Aug., 1938, E.A.

Moerckia Blytii (Moerck) Brockm., bare ground near late snow patch, 3,400 ft., Coire an Lochain, Cairngorm, Easterness (96), June, 1938, P.W.R.

Pellia epiphylla (L.) Corda, forma *undulata* Nees, Bröltal, Rheinland (Germany), Oct., 1922, A.S.

P. endiviaefolia (Dicks.) Dum. (=*P. Fabbroniana* Raddi), (*J. calycina Tayl.*), forma *furcigera* (Hook.) Massal., Orosglany (Hungary), Sept., 1937, A.B.

Blasia pusilla L., on sphagnum bog on edge of lake, Loch Morlich, Easterness (96), June, 1938, P.W.R.

Gymnomitrium obtusum (Lindb.) Pears., rocks above Bachnagairn, 1,850 ft., Glen Clova (90), June, 1938, J.R.L.

G. varians (Lindb.) Schiffn., summit of Ben Nevis (97), July, 1936, det. H.H.K., com. E.M.L.

Marsupella emarginata (Ehrh.) Dum., Rocks St. Laurent sur Sevre, Deux Sèvres (France), Oct., 1936, J.C.

M. aquatica (Lindenb.) Schiffn., on rocks in a bog south of Bwlch-y-groes, Montgomery (47*), Aug., 1938, E.M.L. " A small form but more correct here than as *M. emarginata*," F.E.M. ; Ebbegebirge, Westfalen (Germany), Aug., 1939, A.S.

M. sphacelata (Gies.) Lindb., Coire Leis, Ben Nevis (97*), July, 1936, det. H.H.K., com. E.M.L.

Alicularia compressa (Hook.) Nees, stream south of Bwlch-y-groes, Montgomery (47*), Aug., 1938, E.M.L. ; Hohes Venn, Rheinland (Germany), June, 1934, A.S.

Jamesoniella autumnalis (D.C.) Steph., Rowan tree on Ben Narnain, Argyll (98), May, 1938, E.C.W. ; rocks, St. Philbert sur Pont, Vendée (France), April, 1937, J.C.

Anastrophyllum Donianum (Hook.) Steph., Stob Ban, Mamore Forest, West Inverness (97), July, 1938, E.C.W.

Gymnocolea inflata (Huds.) Dum., Teverner Heide, Niederrhein, Rheinland (Germany), Sept., 1930, A.S.

Lophozia lycopodioides (Wallr.) Cogn., Raxalpa (Lower Austria), Oct., 1937, J.F.

L. Floerkii (Web. et Mohr.) Schiffn., Stiperstones Rocks, Shropshire (40), Sept., 1938, E.A.

L. barbata (Schmid.) Dum., shaded limestone pavement, Grassington (64), Sept., 1938, A.Tu. ; Steilhang, Siegtal, Rheinland (Germany), Dec., 1929, A.S. ; Csakvar (Hungary), April, 1937, A.B.

L. Kunzeana (Hüb.) Evans, among rocks, Schiehallion, 3,500 ft., Perthshire (88), July, 1936, H.H.K. and J.B.D.

Plagiochila asplenioides (L.) Dum., pine plantation, Nether Tofts, Kirkton, Hawick (80), Nov., 1938, J.W. " This is the var. *major* Nees, forma *subintegerrima* Schiffn., F.E.M. ; var. *minor* Lindenb. (*P. Dillenii* Tayl.) forma *laxa* Matouschek, woodland near Llangollen, Denbighshire (50), Aug., 1938, E.A.

P. spinulosa (Dicks.) Dum., Grange Fell, Borrowdale (70), Sept., 1930, A.Tu. ; Rowardennan, Loch Lomondside, Stirlingshire (86), March, 1939, J.W.

Pedinophyllum interruptum (Nees) Pears., How Stean (64), May, 1938, F.E.M. ; Bakonyosglop (Hungary), 1938, A.B.

Lophozia barbata (Schmid.) Dum., north side of damp wall near Dumbroch Loch, near Blanefield, Stirlingshire (86), Feb., 1939, J.W.

Leptoscyphus anomalus (Hook.) Mitt. (*Mylia anomala* Gray), Whixall Moss, Shropshire (40*), Sept., 1938, H.H.K., com. E.A. ; Ebbegebirge, Westfalen (Germany), Oct., 1924, A.S. ; Hechtensee, Steiermark (Austria), May, 1938, J.F.

Lophocolea heterophylla (Schrad.) Dum., woods, St. Hilaire du Bois, Vendée (France), April, 1937, J.C.

Chiloscyphus polyanthus (L.) Corda, var. *rivularis* (Schrad.) Nees, Wiehl-Alperbrück, Wiehtal, Rheinland (Germany), Nov., 1933, A.S.

Saccogyna viticulosa (Sm.) Dum., Brandelow Park (70), Sept., 1937, A.Tu. ; woodland near Llangollen, Denbighshire (50*), Aug., 1938, H.H.K., com. E.A. ; wet rocks near shore of Loch Lomond, Stirlingshire (86), March, 1939, J.W.

Nowellia curvifolia (Dicks.) Mitt. (*Cephalozia curvifolia* Dum.), Skelmorlie Glen (75), May, 1937, J.R.L. ; Voloc (Hungary), Aug., 1937, A.B.

Pleuroclada albescens (Hook.) Spruce, Coire Leis, Ben Nevis (97), July, 1936, E.M.L.

Adelanthus dugortiensis Douin et Lett, Slievemore, Achill Island (I. 27), July, 1925, H.H.K., J.B.D. and W.S.N.

Calypogeia Neesiana (Carest et Massal.) Massal., Rengsetal, Aggergebiet, Rheinland (Germany), Oct., 1927, A.S.

C. arguta Nees et Mont., woods, St. Hilaire du Bois, Vendée (France), April, 1937, J.C.

Bazzania tricrenata (Wahl.) Pears. (=*Pleuroschisma tricrenatum* Dum.), Mürren (Switzerland), Sept., 1937, D.B.B. ; St. Blasien, Schwarzwald (Germany), Aug., 1935, A.S.

B. Pearsoni (Steph.) Pears., Stob Ban, Mamore Forest, West Inverness (97), July, 1938, E.C.W.

Lepidozia pinnata (Hook.) Dum., on shady rocks and on north side and north faces of granite crags, Forêt de Mortain, Manche, Normandy (France), April, 1938, E.W.J.

L. reptans (L.) Dum., var. *julacea* Nees, Stiperstones Rocks, Shropshire (40*), Sept., 1938, E.A.

L. Pearsoni Spruce, World's End, Llangollen, Denbighshire (50), H.H.K. com. E.A.

L. setacea (Web.) Mitt., Wahner Heide, Rheinland (Germany), Oct., 1927, A.S.

Blepharostoma trichophyllum (L.) Dum., St. Blasien, Schwarzwald (Germany), Sept., 1935, A.S.

Chandonanthus setiformis (Ehrh.) Lindb., Skrukkeli (Norway), May, 1938, P.S. ; rocks, Loch Brandy, 2,100 ft. (90), June, 1938, W.Y. and J.R.L. "This fits in better with var. *alpinus* (Hook.) Kaal.," F.E.M.

Herberta Hutchinsiae (Gottsche) Evans, wood by Loch Long, almost at sea level, Arrochar, Dumbarton (99*), May, 1938, E.C.W.

Mastigophora Woodsii (Hook.) Nees, Croaghaun Mt., Achill, Co. Mayo, Ireland (I.27), June, 1937, D.B.B. ; Stob Ban, Mamore Forest, West Inverness (97), July, 1938, leg. et det. E.C.W.

Ptilidium ciliare (L.) Hampe, Tuddenham Heath, West Suffolk (26), April, 1938, E.C.W.

Trichocolea tomentella (Ehrh.) Dum., Waldbröl, Rheinland (Germany), Oct., 1927, A.S.

Diplophyllum albicans (L.) Dum., c.fr., Rowardennan, Loch Lomond, Stirlingshire (86), March, 1939, J.W.

Scapania gracilis (Lindb.) Kaal., Pistyll Rhaiadr, Montgomery (47), Aug., 1938, E.A.

S. aspera Bernet, Downs above Didling, West Sussex (13), April, 1938, E.C.W. ; World's End, Llangollen, Denbighshire (50), Aug., 1938, E.A.

S. nemorosa (L.) Dum., on clay, Sidney Wood, Alford, Surrey (17), April, 1938, E.C.W. ; wood bank St. Hilaire du Bois, Vendée (France), April, 1937, J.C.

S. nimbosa Tayl., eastern corrie, Aonach Beag, 3,000 ft., West Inverness (97), July, 1938, E.C.W. ; Stob Ban, Mamore Forest, West Inverness (97), July, 1938, E.C.W.

S. dentata Dum. (*S. purpurascens* Pears.), Pistyll Rhaiadr, Montgomeryshire (47*), Aug., 1938, W.W.

S. undulata (L.) Dum., in springs, Lochnagar, Aberdeen (92), July, 1930, leg. D.A.J., H.H.K., J.B.D.

S. paludosa K. Müll., by springs, Lochnagar, Aberdeen (92), July, 1930, leg. D.A.J., H.H.K., J.B.D.

Pleurozia purpurea (Lightf.) Lindb., Slievemore, Achill I., Co. Mayo, Ireland (I.27), June, 1937, D.B.B.

Madotheca laevigata (Schrad.) Dum., rocks, Chantonnay, Vendée (France), April, 1937, J.C.

M. Cordeana (Hüben.) Dum., Nant y Ffrith, Wrexham (50), July, 1925, leg. D.A.J. com. J.B.D.; Selfjord (Norway), Aug., 1937, P.S.; on a tree, St. Philbert du Pont, Vendée (France), April, 1937, J.C.

M. Porella (Dicks.) Nees, on submerged rocks in the Dee, Llangollen, Denbighshire (50), Aug., 1938, F.E.M., com. E.A.

Cololejeunea Rossettiana (Massal.) Schiffn., on shaded rocks, St. Philbert du Pont, Vendée (France), April, 1937, J.C.

C. microscopica (Tayl.) Schiffn., rocks on lower slopes of Ben Narnain, Argyll (98), May, 1938, E.C.W.

Lejeunea cavifolia (Ehrh.) Lindb., woody bank, St. Hilaire du Bois, Vendée (France), April, 1937, J.C.

L. planiuscula Lindb. emend. Buch., rocks near Trevise Farm, The Lizard (1), Nov., 1938, W.E.N.

L. Macvicari Pears., shaded rocks, Bonithon Plantation. The Lizard (1), May, 1931, W.E.N.

Microlejeunea ulicina (Tayl.) Evans, wood by Loch Lomond, Tarbet, Dumbarton (99), May, 1938, E.C.W.; on trees, Forêt de Chautemerle, Deux Sèvres (France), Feb., 1934, J.C.

Jubula Hutchinsiae (Hook.) Dum., on shady conglomerate boulders in stream in woods, Brockweir (34). In similar situations to that in which it was found at Tintern on the opposite bank of the Wye, April, 1937, E.W.J.

Frullania Tamarisci (L.) Dum., Siegtal, Rheinland (Germany), June, 1929, A.S.; wet rocks by stream, Nether Tofts, Kirkton, Hawick (80), Nov., 1938, J.W.

F. microphylla (Gottsche) Pears., damp wall, Lizard Village, Cornwall (1), Nov., 1933, W.E.N.

CENSUS CATALOGUES.

List of additional V.C. Records since the issue of the Report for 1937.

MOSSES.

Catharinea undulata var. *minor*, Web. & Mohr., Goldale Beck, Malham Tarn (64), April, 1937, T.H.B.B.

Oligotrichum hercynicum Lam., sandy ditches on Turkey Nab (62), Oct., 1937, G.F.H.

Polytrichum gracile Dicks., Moss of Cree (74), April, 1937, E.C.W.

Seligeria Doniana C.M., Leck Fell (60), Jan., 1938, T.H.B.B.

S. tristicha B. & S., near Hell Gill Bridge, Mallerstang (69), Jan., 1938, T.H.B.B.

S. paucifolia Carruth., Hawkley Hanger (12), Sept., 1937, E.C.W.

Rhabdoweisia fugax B. & S., Sgurr of Eigg (104), Aug., 1938, Dr. K. Blackburn.

R. denticulata B. & S., Harris (110), April, 1938, L.B.C.T. and others.

Cynodontium Wahlenbergii Ren. & Card., Loch Scaven, Achnasheen (105), Sept., 1937, E.M.L.

Dicranella crispa Schimp., Whitmoor Common, Guildford (17), April, 1926, E.C.W.

D. squarrosa Schp., Harris (110), April, 1938, L.B.C.T. and others.

Campylopus atrovirens, var. *falcatus* Braithw., Harris (110), April, 1938, L.B.C.T. and others.

C. atrovirens var. *muticus* Milde., Bicton Common (3), April, 1938, A.Th.

Dicranum falcatum Hedw., N.E. Corrie, Ben Lomond (86), June, 1937, per E.C.W.

D. Bonjeani var. *rugifolium* Bosw., Rimington Moor (64), May, 1938, A. Turner.

D. fuscescens Turn., Harris (110), April, 1938, L.B.C.T. and others.

Fissidens viridulus Wahl., Iona (103), July, 1938, L.B.C.T.

F. viridulus var. *Lylei* Wils., Stallingboro (54). April, 1914, G.H.A.

F. adiantoides Hedw., Rye Water (I.19), May, 1938, J.S.T.

Rhacomitrium sudeticum B. & S., Harris (110), April, 1938, L.B.C.T. and others.

R. canescens var. *ericoides* B. & S., Harris (110), April, 1938, L.B.C.T. and others.

Tortula ruraliformis Dixon, Iona (103), July, 1938, L.B.C.T.

Barbula tophacea Mitt., Rye Water (I.19), May, 1938, J.S.T.

B. recurvifolia Schp., Ayle Common (67), Sept., 1938, E.M.L.

B. cylindrica Schp., Glencoe (98), Sept., 1937, E.M.L.

B. convoluta var. *Sardoa* B. & S., Yafford, Shorwell, I. of W. (10), March, 1938, P.L.; Aberfoyle (87), Aug., 1938, Dr. Winona H. Welch.

Weisia viridula Hedw., Invershiel (105), June, 1938, E.M.L.

W. verticillata Brid., Iona (103), July, 1938, L.B.C.T.; Rye Water (I.19), May, 1938, J.S.T.

Trichostomum tenuirostre Lindb., Harris (110), April, 1938, L.B.C.T. and others.

T. tortuosum Dixon, Queendown Warren (15), May, 1937, E.C.W.

Anoectangium compactum Schwaeg., Harris (110), April, 1938, L.B.C.T.

Oedipodium Griffithianum Schwaeg., Sgurr of Eigg (104), Aug., 1938, Dr. K. Blackburn.

Splachnum ampullaceum L., S. Uist (110), June, 1938, G.H.A.

S. sphaericum Linn. fil., Harris (110), April, 1938, L.B.C.T. and others.

Physcomitrium pyriforme Brid., Ampfield (11), April, 1937, A.W.

Webera acuminata Schp., Isle of Rhum (104), Aug., 1938, Dr. K. Blackburn.

W. elongata Schwaeg., Harris (110), April, 1938, L.B.C.T. and others.

W. proligera Bryhn., Upper Loch Torridon (105), Sept., 1937, E.M.L.

Bryum filiforme Dicks., Harris (110), April, 1938, L.B.C.T. and others.

B. alpinum var. *viride* Husn., Upper Loch Torridon (105), Sept., 1937, E.M.L.

B. argenteum var. *lanatum* B. & S., Petersfield (12), Aug., 1938, Dr. Winona H. Welch.

Mnium cuspidatum Hedw., Lough Ramor (I.30), May, 1937, J.S.T.

M. rostratum Schrad., Rye Water (I.19), May, 1938, J.S.T.

M. stellare Reich., Bohernabreena (I.21), March, 1938, J.S.T.

M. punctatum var., *elatum* Schp., Harris (110), April, 1938, L.B.C.T. and others.

Leskea polycarpa Ehrh., Co. Kildare (I.19), July, 1938, J.S.T.

Thuidium recognitum Lindb., Weavers Down, near Liphook (12), July, 1937, E.C.W.

Eurhynchium piliferum B. & S., Kilkea Park (I.13), Sept., 1937, J.S.T.

Plagiothecium undulatum B. & S., near Liphook (12), March, 1937, E.C.W.

Amblystegium Sprucei B. & S., Glen Dole, Clora (90), Aug., 1938, U.D.

A. varium Lindb., Wicken Sedge Fen, Cambridge (29), June, 1929, P.W.R.

A. irriguum B. & S., Crofton (8), July, 1937, E.C.W.

Hypnum fluitans L., Howmoor, S. Uist (110), June, 1938, G.H.A.

H. molluscum var. *fastigiatum* Bosw., Iona (103), July, 1938, L.B.C.T.

H. scorpioides L., Iona (103), July, 1938, L.B.C.T.

HEPATICS.

List of additional V.C. records since the issue of the Report for 1937.

Marsupella Pearsoni Schiffn., near Hushinish, Harris (110), April, 1938, L.B.C.T.

Alicularia compressa (Hook.) Nees, near Tarbert, Harris (110), April, 1938, L.B.C.T.

Jamesoniella Carringtonii (Balf.) Schiffn., Clisham, Harris (110), April, 1938, L.B.C.T. and G.W.

Sphenolobus minutus (Crantz) Steph., Ross of Cree (74), April, 1937, E.C.W.

S. exsectiformis (Breidl.) Steph., Greenham Common, near Newbury (22), Sept., 1938, H.H.K. ; Tarbert, Harris (110), April, 1938, L.B.C.T. and G.W.

Leptoscyphus anomalus (Hook.) Mitt., Whixall Moss (40), Sept., 1938, H.H.K.

Calypogeia Neesiana K. Müll., Rookley (10), May, 1938, leg. P.L., det. H.H.K.

Bazzania Pearsoni (Steph.) Pears., near Hushinish, Harris (110), April, 1938, G.W.

Lepidozia reptans (L.) Dum. var. *julacea* Nees, Grey Tor, Dartmoor (3), 1937, E.A.

Telaranea nematodes (Gottsche) Howe, Waterville (I.1), 1935, Dr. F. Verdoorn ; also Derrycunihy Wood (I.1), 1936, P.W.M.R.

Herberta adunca (Dicks.) Gray, Hushinish, Harris (110), April, 1938, G.W.

Mastigophora Woodsii (Hook.) Nees, Clisham, Harris (110), April, 1938, L.B.C.T. and G.W.

Diplophyllum obtusifolium (Hook.) Dum., near Lake Side, North Lancashire (69), May, 1938, H.H.K.

Scapania ornithopodioides (With.) Pears., Clisham, Harris (110), April, 1938, G.W.

Radula voluta Tayl., Kylemore (I.16), Sept., 1933, P.W.M.R.

Colura calyptrifolia (Hook.) Dum., Clisham, Harris (110), April, 1938, G.W.

Cololejeunea microscopica (Tayl.) Schiffn., Hushinish, Harris (110), April, 1938, G.W. ; Kylemore (I.16), Sept., 1933, P.W.M.R.

Lejeunea patens Lindb., Llanarmon (50), Sept., 1938, Mrs. Sandwith, per H.H.K.

L. planiuscula (Lindb.), Buch emend., Marros (44), Sept., 1938, H.H.K.

BRYOPHYTA OF HARRIS: OUTER HEBRIDES

By

G. WIGGLESWORTH, L. B. C. TROTTER and C. V. B. MARQUAND.

The three members of the British Bryological Society, named above, together with Professor J. Else, Principal of the City of Nottingham College of Art, assembled at Tarbert on April 19th, 1938, for a week's intensive bryologizing on the hills of Harris. We took up our quarters at the comfortable hotel situated between the East Loch and West Loch on the rather remarkable isthmus which unites North Harris with South Harris. To avoid the rather lengthy journey by land and sea, one member of the party, who had made previous visits, availed himself of the air service by which the island is now reached from Renfrew aerodrome, near Glasgow, in little more than two hours of extremely interesting travel over the isles of Coll and Tiree, landing en route on golf courses and the sand on the sea-shore of the islands of Barra, South Uist and North Uist which are extensive features of the southern Outer isles. The enforced delay due to a puncture on the rough road to Tarbert from the place of landing, afforded a further opportunity of collecting on Traigh Luskentyre which we did not visit again. During our short stay we traversed all the higher summits, as well as working the low ground in several places, including the west coast where *Myurium Hebridarum* was found in abundance. To those familiar with the gabbro and basalt of the Cuillin in Skye and Rhum, the characteristic outcrops of Lewisian Gneiss make a very striking contrast. The most conspicuous feature of this ancient rock of which so much of the Outer Hebrides is composed, is its luxuriant covering of saxicolous Lichens. The Bryophyte Flora cannot of course compare in richness with that to be found on the Schistose mountains of Breadalbane, but nowhere in the British Isles is to be found more glorious wild country. Here particularly in Lewis (which is the northern part of the same large island) are to be seen in the shielings, the charming old crofts, alas! now fast disappearing from Skye. The low unmortared walls composed of local boulders blend so perfectly with the landscape that attention is only drawn to the existence of the dwelling by the whisp of peat smoke escaping from the

hole, which serves as a chimney, in the thatched roof. The party was favoured with good weather, apart from a heavy storm while traversing the summit ridge of Clisham, the highest point in the outer Hebrides, and the daily excursions were greatly enjoyed by all.

In the following list of the specimens collected, the species which are new vice-county records for V.C. 110 are marked with an asterisk *. These include 17 *Mucsi* and 15 *Hepaticae*.

MUSCI.

**Sphagnum cuspidatum* Ehrh. var. *falcatum* Russ., Sgaoth Ard, c. 1,800 ft.

S. auriculatum Schp. var. *ovatum* Warnst., gully between Sgaoth Iosal and Sgaoth Ard, c. 1,400 ft.

S. auriculatum Schp., Sgaoth Ard, c. 1,800 ft.

Andreaea petrophila Ehrh.

A. alpina Smith, Clisham, 2,000 ft. ; Sgaoth Iosal ; Sgaoth Ard, c. 1,500 ft.

Oligotrichum hercynicum Lam., Clisham, 2,400 ft.

Polytrichum aloides Hedw.

P. urnigerum L., Traigh Luskentyre.

P. alpinum L., West of Tarbert.

P. piliferum Schreb.

P. juniperinum Willd, Husinish.

Swartzia montana Lindb.

**Rhabdoweisia denticulata* B. & S. (c.fr.) Sgaoth Ard, 1,200 ft.

Dicranella heteromalla Schp. near Tarbert.

**D. squarrosa* Schp., Oreval near Husinish, 1,300 ft.

Blindia acuta B. & S., Sgaoth Iosal c. 1,100 ft.

Campylopus flexuosus Brid. Mulla-fo-dheas, c. 700 ft.

C. fragilis B. & S. Moorland near Sgaoth Iosal, c. 800 ft. Loch Diraclett.

C. Shawii Wils, Swamp near Uisgnaval Beg., 400 ft.

C. atrovirens De Not. (extremely common), var. **falcatus* Braithw., Moorland rock near Tarbert.

Dicranum scoparium Hedw, Clisham.

D. majus Turn., forma (teeth obsolescent), near Loch Diraclett.

**D. fuscescens* Turn., Loch Diraclett.

Leucobryum glaucum Schp., Loch Diraclett (found nowhere else).

Fissidens bryoides Hedw.

F. decipiens De Not., Oreval near Husinish.

Grimmia maritima Smith, Loch Diraclett; Oreval near Husinish. Coast opposite Island of Scarp.

G. trichophylla Grev., Clisham.

Rhacomitrium ellipticum B. & S., Sgaoth Iosal.

R. aciculare Brid., Loch Diraclett, etc.

R. protensum Braun., near Tarbert.

R. fasciculare Brid., Clisham, 800 ft.

R. heterostichum Brid. (common), var. **gracilescens* B. & S., Sgaoth Ard, c. 1,300 ft.

**R. sudeticum* B. & S.

R. lanuginosum Brid. (extremely abundant).

R. canescens Brid., var. **ericoides* B. & S., sandy detritus, Uisgnaval Beg.

Ptychomitrium polyphyllum Fuern.

Hedwigia ciliata Ehrh.

Barbula convoluta Hedw., Loch Diraclett.

Trichostomum mutabile Bruch., var. *littorale* Dixon, Loch Diraclett.

**T. tenuirostre* Lindb., Sgaoth Ard.

**Anoectangium compactum* Schwaegr., near Tarbert; Sron a Sgaoth; Sgaoth Iosal, c. 1,000 ft.

Zygodon Mougeotii B. & S., Sgaoth Ard, etc. (common).

Ulota phyllantha Brid., near Tarbert; on rocks on Husinish shore.

U. Hutchinsiae Hamm., Loch Diraclett.

Orthotrichum rupestre Schleich., Loch Diraclett; Traigh Luskentyre.

**Splachnum sphaericum* Linn. fil., deer dung below Sgaoth Ard, 1,100 ft.

Funaria Templetoni Sm., Husinish, 350 ft.

F. hygrometrica Sibth.

Bartramia pomiformis Hedw.

Philonotis fontana Brid. (forma), Oreval near Husinish, 1,150 ft.

Breutelia arcuata Schp., west of Tarbert.

**Webera elongata* Schwaegr. (c. fr.) (in tuft of *Alicularia scalaris*), Clisham, 2,400 ft.

**Bryum filiforme* Dicks., sand beside loch, 480 ft.

B. pseudo-triquetrum Schwaegr., swamp above Marraig River, Clisham, 800 ft.

Mn. punctatum L., var. **elatum* Schp., Oreval near Husinish, 1,300 ft.

Mn. hornum L., below Sgaoth Iosal, Husinish, etc. (not uncommon).

**Mn. subglobosum* B. & S.
Fontinalis squamosa L., Loch Diraclett.
Pterygophyllum lucens Brid.
Heterocladium heteropterum B. & S., near Tarbert ; Sgaoth Ard ; Oreval near Husinish.
Myurium Hebridarum Schp., Oreval near Husinish, 1,150 ft. (by aneroid) ; Red Gill, 1,050 ft.
Brachythecium plumosum B. & S., rock in Loch Diraclett.
B. purum Dixon.
Hyocomium flagellare B. & S., moorland below Sgaoth Iosal.
Eurhynchium praelongum Hobk. (very poor), Loch Diraclett.
**Plagiothecium pulchellum* B. & S.
P. denticulatum B. & S.
P. undulatum B. & S., not uncommon on moorland.
**Amblystegium filicinum* De Not.
Hypnum uncinatum Hedw., Geo Beg.
H. revolvens Swartz., near Husinish, c. 200 ft.
H. cupressiforme L., Uisgnaval More, 1,200 ft. ; var. *elatum* B. & S., north of Tarbert.
H. Schreberi Willd. (common).
Hylocomium splendens B. & S., near Tarbert.
H. loreum B. & S. (very abundant)
H. triquetrum (common).

HEPATICAE.

Aneura pinguis Dum., Oreval near Husinish, 1,400 ft.
**A. multifida* (L.) Dum., S.E. of Tarbert.
Metzgeria furcata (L.) Dum., Loch Diraclett, near Tarbert (frequent).
Pellia epiphylla (L.) Corda, Clisham.
Gymnomitrium crenulatum Gottsche., Sgaoth Iosal, 1,200 ft.
Marsupella emarginata (Ehrh.) Dum., Sgaoth Ard, 1,400 ft. ; Husinish, 550 ft.
* *M. Pearsoni* Schiffn., Oreval near Husinish, 1,150 ft. (two places).
M. aquatica (Lindenb.) Schiffn., moorland stream, Sgaoth Iosal, etc.
**Alicularia compressa* (Hook.) Nees., bog slope near Tarbert.
A. scalaris (Schrad.) Corda, Scree, 1,200 ft. and near Tarbert.
Aplozia crenulata (Sm.) Dum. on scree, 1,200 ft. ; var. *gracillima* (Sm.) Heeg, Tarbert.
**A. sphaerocarpa* (Hook.) Dum., Clisham, 2,400 ft.
**Jamesoniella Carringtoni* (Balf.) Schiffn. Clisham, 2,400 ft.
Lophozia quinquedentata (Huds.) Cogn., Husinish.

**Sphenolobus exsectiformis* (Breidl.) Steph., Tarbert.

**Anastrepta orcadensis* (Hook.) Schiffn., Clisham, 2,100 ft.

Plagiochila spinulosa (Dicks.) Dum., Husinish.

Leptoscyphus Taylori (Hook.) Mitt., Loch Diraclett, 60 ft.; Sgaoth Iosal, 1,400 ft.; Husinish.

Chiloscyphus polyanthus (L.) Corda., S.E. of Tarbert.

Saccogyna viticulosa (Sm.) Dum., Husinish.

Cephalozia bicuspidata (L.) Dum., Sgaoth Ard, 1,200 ft.; Loch Diraclett.

Cephaloziella Hampeana (Nees) Schiffn., Loch Diraclett.

Odontoschisma Sphagni (Dicks.) Dum. in *Leucobryum glaucum*, by Loch Diraclett.

Calypogeia trichomanis (L.) Corda, near Tarbert.

C. fissa (L.) Raddi, Husinish.

C. arguta Nees et Mont., Loch Diraclett.

Bazzania tricrenata (Wahl.) Pears., Clisham, 2,100 ft.; Oreval near Husinish, 1,100 ft.

**B. Pearsoni* (Steph.) Pears, (with *Mastigophora*), near Husinish.

Anthelia julacea (L.) Dum., stream below Clisham, square yards of it, 3½ to 4 in. deep, very common west of Tarbert.

**Herberta adunca* (Dicks.) Gray, Husinish.

**Herberta Hutchinsiae* (Gottsche) Evans, Oreval near Husinish, 1,200 ft.; Sgaoth Ard, etc. (common).

**Mastigophora Woodsii* (Hook.) Nees., Uisgnaval Mohr, 1,600 ft.; Clisham, 800 ft., etc.

Diplophyllum albicans (L.) Dum. (frequent.)

Scapania gracilis (Lindb.) Kaal., Loch Diraclett.

**S. ornithopodioides* (With.) Pears., Clisham.

S. dentata Dum., Oreval near Husinish, 1,300 ft.

**S. nemerosa* (L.) Dum., Loch Diraclett.

S. undulata (L.) Dum., swampy ground below Sgaoth Iosal.

Radula complanata (L.) Dum., Husinish.

**R. aquilegia* Tayl., near Tarbert.

Pleurozia purpurea (Lightf.) Lindb., Sgaoth Iosal, etc. (not uncommon).

**Colura calyptrifolia* (Hook.) Dum., near waterfall W. of Clisham, on heather stem.

Lejeunia cavifolia (Ehrh.) Lindb. on *Myurium*, etc., Husinish.

L. patens Lindb., in several places near Tarbert; shady rock face above Husinish, 550 ft.

Harpalejeunia ovata (Hook.) Schiffn., on *Frullania*, near the sea, Husinish.

Frullania tamarisci (L.) Dum., in tuft of *Herberta*, near the sea, Husinish and in several localities near Tarbert.

PROSPECTIVE CHANGES IN NOMENCLATURE—BRITISH MOSSES.

By H. N. DIXON, M.A., F.L.S.

I have given below the changes in nomenclature that I believe will be necessitated, in British Bryology, by the adoption of the Species Muscorum as the starting point for Mosses.

The "correct name," as here given, assumes the adoption of the arrangement in the Students' Handbook. If another system is adopted, the combination will, in many cases, of course, be different, but the specific epithet will, in any case, be the same as given here.

The numbers given in the first column are those of the species in the Census of British Mosses, 2nd Edition.

Catalogue No.	*Catalogue Name.*	*Earliest Hedwigian or post-Hedwigian Specific Name.*	*Correct Name.*
19	**Andreaea petrophila** *Ehrh.*	**Andreaea rupestris** *Hedw.*	**Andreaea rupestris** *Hedw.*
	CATHARINEA Ehrh.		**ATRICHUM** B. & S.
26	**Catharinea undulata** *Web. & Mohr.*	**Polytrichum undulatum** *Hedw.*	**Atrichum undulatum** (*Hedw.*) *P. Beauv.*
27	**Catharinea tenella** *Roehl.*		**Atrichum tenellum** *B. & S.*
28	**Catharinea angustata** *Brid.*		**Atrichum angustatum** *B. & S.*
29	**Catharinea crispa** *James*		**Atrichum crispum** *B. & S.*
35	**Polytrichum sexangulare** *Floerke.*	**Polytrichum norvegicum** *Hedw.*	**Polytrichum norvegicum** *Hedw.*
38	**Polytrichum strictum** *Banks*	**Polytrichum strictum** *Sm.*, Fl. Brit., 1804.	**Polytrichum strictum** *Sm.*
46	**Pleuridium axillare** *Lindb.*	**Phascum nitidum** *Hedw.*	**Pleuridium nitidum** (*Hedw.*) *Rabenh.*
47	**Pleuridium subulatum** *Rabenh.*	nee **Phascum subulatum** *Hedw.*	**Pleuridium acuminatum** *Lindb.*
48	**Pleuridium alternifolium** *Rabenh.*	**Phascum subulatum** *Hedw.*	**Pleuridium subulatum** (*Hedw.*) *Lindb.*

Catalogue No.	*Catalogue Name.*	*Earliest Hedwigian or post- Hedwigian Specific Name.*	*Correct Name.*
49	**Ditrichum tenuifolium** *Lindb.*	**Trichostomum cylindricum** *Hedw.*	**Ditrichum cylindricum** (*Hedw.*) *Grout*, Moss Flora of N. Amer., I., 48.
50	**Ditrichum tortile** *Lindb.* var. β **pusillum** *B. & S.*	**Didymodon pusillum** *Hedw.*	**Ditrichum pusillum** var. **tortile** *Brid.* **Ditrichum pusillum** (*Hedw.*) *R. S. Williams.*
	SWARTZIA Ehrh.		**DISTICHIUM** B. & S.
56	**Swartzia montana** *Lindb.*	**Cynontodium capillaceum** *Hedw.*	**Distichium capillaceum** (*Hedw.*) *B. & S.*
57	**Swartzia inclinata** *Ehrh.*	**Cynontodium inclinatum** *Hedw.*	**Distichium inclinatum** (*Hedw.*) *B. & S.*
66	**Saelania caesia** *Lindb.*	**Trichostomum glaucescens** *Hedw.*	**Saelania glaucescens** (*Hedw.*) *Broth.*
85	**Dicranella secunda** *Lindb.*	**Dicranum subulatum** *Hedw.*	**Dicranella subulata** (*Hedw.*) *Schimp.*
144	**Fissidens decipiens** *De Not.* (1863).	**Fissidens cristatus** *Wils.*, ex Mitten in Journ. Linn. Soc., Bot., Suppl. to vol. I., p. 137 (1859).	**Fissidens cristatus** *Wils.*
170	**Grimmia ovata** *Schwaegr.*	**Dicranum ovale** *Hedw.*	**Grimmia ovalis** (*Hedw.*) *Lindb.*
185	**Rhacomitrium ramulosum** *Lindb.*	**Trichostomum microcarpum** *Hedw.*	**Rhacomitrium microcarpum** (*Hedw.*) *Brid.*
198	**Phascum curvicolle** *Ehrh.*	**Phascum curvicollum** *Hedw.*	**Phascum curvicollum** *Hedw.*
202	**Pottia truncatula** *Lindb.*	**Gymnostomum truncatum** *Hedw.*	**Pottia truncata** (*Hedw.*) *Fürnr.*
214	**Tortula pusilla** *Mitt.*	**Gymnostomum ovatum** *Hedw.*	**Tortula ovata** (*Hedw.*) *Dix.* comb. nov.
238	**Barbula lurida** *Lindb.*	**Cynontodium trifarium** *Hedw.*	**Barbula trifaria** (*Hedw.*) *Mitt.*
240	**Barbula rubella** *Lindb.*	**Weisia recurvirostra** *Hedw.*	**Barbula recurvirostra** (*Hedw.*) *Dix.* comb. nov.
243	**Barbula recurvifolia** *Schimp.*	**Tortula reflexa** *Brid., Sp. Musc.* (1806).	**Barbula reflexa** (*Brid.*) *Brid.*
269	**Weisia viridula** *Hedw.*	**Weisia controversa** *Hedw.*	**Weisia controversa** *Hedw.*
270	**Weisia mucronata** *B. & S.*	**Gymnostomum rutilans** *Hedw.*	**Weisia rutilans** (*Hedw.*) *Lindb.*
274	**Weisia curvirostris** *C.M.*	**Gymnostomum recurvirostrum** *Hedw.*	**Weisia recurvirostra** (*Hedw.*) *Dix.* comb. nov.

Catalogue No.	*Catalogue Name.*	*Earliest Hedwigian or post-Hedwigian Specific Name.*	*Correct Name.*
277	**Trichostomum mutabile** *Bruch.*	**Trichostomum brachydontium** *Bruch.*, in Flora, 1829.	**Trichostomum brachydontium** *Bruch.*
287	**Cinclidotus Brebissoni** *Husn.*	**Barbula mucronata** *Brid.*	**Cinclidotus mucronatus** (*Brid.*) *Moenk. & Loeske.*
288bis.	**Cinclidotus riparius** *Arn.*	**Trichostomum nigricans** *Brid.*, Sp. M. I., 242 (1806).	**Cinclidotus nigricans** (*Brid.*) *Dix.* comb. nov.
289	**Encalypta commutata** *Nees & Hornsch.*	**Encalypta alpina** *Sm.*, Eng. Bot., 1805.	**Encalypta alpina** *Sm.*
294	**Anœctangium compactum** *Schwaegr.*	**Gymnostomum aestivum** *Hedw.*	**Anoectangium aestivum** (*Hedw.*) *B. & S.*
313	**Orthotrichum leiocarpum** *B. & S.*		See my note in Rev. Bryol. (1933), VI., 106.
319	**Orthotrichum Schimperi** *Hamm.*	**Orthotrichum pumilum** *Dicks.*, Pl. Crypt., fasc. IV., p. 5 (1801) (nec **O. pumilum** *Sw.*).	**Orthotrichum pumilum** *Dicks.*
326	**Schistostega osmundacea** *Mohr.*	**Gymnostomum pennatum** *Hedw.*	**Schistostega pennata** (*Hedw.*) *Hook. & Tayl.*
329	**Splachnum sphaericum** *Linn. f.*	**Splachnum ovatum** *Hedw.*	**Splachnum ovatum** *Hedw.*
334	**Tayloria tenuis** *Schimp.*	**Splachnum longicollum** *Dicks.*, Pl. Crypt., fasc. IV., p. 10 (1801).	**Tayloria longicolla** (*Dicks.*) *Dix.* comb. nov.
348	**Funaria ericetorum** *Dix.*	**Gymnostomum obtusum** *Hedw.*	**Funaria obtusa** (*Hedw.*) *Lindb.*
349	**Funaria Templetoni** *Sm.*	**Bryum attenuatum** *Dicks.*, Pl. Crypt. fasc. IV., p. 10 (1801).	**Funaria attenuata** (*Dicks.*) *Lindb.*
353	**Meesia trichoides** *Spr.*	**Meesea uliginosa** *Hedw.*	**Meesea uliginosa** *Hedw.*
361	**Conostomum boreale** *Sw.*	**Bryum tetragonum** *Brid.*, M. Rec. II., Pt. III., 59 (1803).	**Conostomum tetragonum** (*Brid.*) *Lindb.*
374	**Breutelia arcuata** *Schimp.*	**Mnium chrysocomum** *Hedw.*	**Breutelia chrysocoma** (*Hedw.*) *Lindb.*
406	**Bryum uliginosum** *B. & S.*	**Cynontodium cernuum** *Hedw.*	**Bryum cernuum** (*Hedw.*) *B. & S.*
449	**Mnium subglobosum** *B. & S.*	**Mnium pseudo-punctatum** *B. & S.*, in Lond. Journ. of Bot. II., 669 (1843).	**Mnium pseudopunctatum** *B. & S.*

Catalogue No.	*Catalogue Name.*	*Earliest Hedwigian or post-Hedwigian Specific Name.*	*Correct Name.*
485	**Pseudoleskea atrovirens** *B. & S*	**Leskea incurvata** *Hedw.*	**Pseudoleskea incurvata** (*Hedw.*) *Dix.*
525	**Eurhynchium praelongum** (*L.*) *Hobk.*	**Hypnum Stokesii** *C.M.*, Syn. II., 448 (1851).	**Eurhynchium Stokesii** (*C.M.*) *B. & S.*
526	**Eurhynchium Swartzii** *Hobk.*	**Hypnum praelongum** *Hedw.*	**Eurhynchium praelongum** (*Hedw.*) *B. & S.*
535	**Eurhynchium strigosum** *B. & S.*	**Hypnum pulchellum** Hedw.	**Eurhynchium pulchellum** (*Hedw.*) *Jennings.*
539	**Eurhynchium rusciforme** *Milde.*	**Hypnum riparioides** *Hedw.*	**Eurhynchium riparioides** (*Hedw.*) *Dix.* comb. nov.
564	**Amblystegium irriguum** *B. & S.*	**Hypnum tenax** *Hedw.*	**Amblystegium tenax** (*Hedw.*) *Dix.* comb. nov.
600	**Hypnum palustre** *Huds.*	**Hypnum luridum** *Hedw.*	**Hypnum luridum** *Hedw.*
532	**Eurhynchium myosuroides** *Schimp.*		
533	**Eurhynchium myurum** *Dix.*		

Hedwig in the Sp. Musc., gives the name Hypnum myosuroides to the plant universally known as Eurh. (or Isothecium) myurum. To transfer this name would cause serious confusion, and would entail creating an entirely new name for E. myosuroides. It is proposed, therefore, to place the name Hypnum myosuroides Hedw. on the list of Nomina Ambigua. If this is agreed to by the next Internat. Bot. Congress, the names will be retained as at present.

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At the Annual Meeting of the British Bryological Society at Llangollen, last summer, the Hon. Bibliographer, Dr. L. B. C Trotter resigned, owing to pressure of National work, and the undersigned was elected to fill the gap. The Society is very deeply indebted to Dr. Trotter for performing the onerous duties of his office throughout the period of years from the initiation of the Index and the publication in the Society's Report of the Annual additions to Recent Bryological Literature.

The Index is now housed in the Herbarium of the Royal Botanic Gardens, Kew, where it is available for the use of members of the British Bryological Society.

In the present contribution I have followed on lines uniform with those of former years. I would like to thank all those who have so generously presented separates of their papers to the Library of the British Bryological Society and express the hope that in future years a still larger number of authors may see their way to doing this.

(Signed) C. V. B. MARQUAND.

10*th March*, 1939.

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