

**The British**  
**Bryological Society**



**REPORT FOR 1935.**

**VOL. III, PART 4.**



Price of Reports (per copy) .....	2/6.
Old M.E. Club Reports (per copy) .....	1/-.

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Berwick-upon-Tweed :  
MARTIN'S PRINTING WORKS, LTD. 64 & 66 WEST STREET

1936.

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**for 1935.**

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**MOSSES AND HEPATICS SENT FOR  
DISTRIBUTION, 1935—1936.**

	<i>Sphagna</i>	<i>True Mosses</i>	<i>Hep-atics</i>	<i>Total</i>
Mr. G. H. Allison ....	20	31	—	51
Miss E. Armitage ....	—	22	—	22
Mr. C. M. Bedford ....	—	5	—	5
Dr. A. Boros (Hungary) ....	18	254	101	373
Mr. D. B. Bradshaw ....	—	19	28	47
Miss M. S. Brown (Nova Scotia)	—	30	21	51
Mons. J. Charrier (France) ....	19	191	53	263
Miss H. A. Chick ....	—	32	—	32
Mr. H. N. Dixon ....	—	96	—	96
Mr. J. B. Duncan ....	—	158	18	176
Miss A. M. Irvin ....	—	30	—	30
Mr. D. A. Jones ....	—	93	41	134
Mr. E. W. Jones ....	—	44	37	81
Mr. H. H. Knight ....	—	—	9	9
Mr. J. R. Lee ....	—	48	4	52
Mr. J. Lid (Norway) ....	—	58	6	64
Miss E. M. Lobley ....	46	50	26	122
Rev. W. R. Megaw ....	—	44	—	44
Dr. Hj. Möller (Sweden) ....	—	115	—	115
Mr. W. E. Nicholson ....	—	55	40	95
Mr. P. W. M. Richards ....	—	32	6	38
Herr A. Schumacher (Germany)	210	200	91	501
Capt. C. Stenholm (Sweden) ....	—	100	48	148
Mr. P. Störmer (Norway) ....	—	120	45	165
Miss E. H. Stevenson ....	—	48	—	48
Mr. W. G. Travis ....	—	44	—	44
Mr. A. Turner ....	—	31	15	46
Mr. E. C. Wallace ....	—	131	136	267
Mr. A. Wilson ....	—	50	—	50
	<b>313</b>	<b>2,131</b>	<b>725</b>	<b>3,169</b>



**REFEREES.****Mosses :—****Sphagnaceae :—**

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

**True Mosses :—**

Andreaeaceae to Grimmiaceae	....	Mr. SAVERY.
Tortulaceae to Timmiaceae,	....	Dr. WATSON.
Schistostegaceae to Leskeaceae	....	Mr. JONES.
Hypnaceae, except Harpidia	....	Mr. J. B. DUNCAN.
Harpidia and North American Mosses	....	Mr. SHERRIN.
European Mosses	....	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.



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**ACCOUNT for 1935.***EXPENSES.*

Printing Report, 1934	....	....	....	....	£24	6	3
„ Circular	....	....	....	....		12	6
„ Supplements to Census Catalogues	....				4	12	0
Stationery	....	....	....	....	1	2	6
Distribution Costs, 1934-35	....	....	....	....	5	12	2
Secretary's Expenses	....	....	....	....	2	7	4
Treasurer's Expenses	....	....	....	....	1	10	9
Librarian's Expenses	....	....	....	....	1	2	3½
Recorder for Hepatic records, Expenses	....				0	9	6
Annual Excursion—Expenses	....	....	....	....	1	4	11
Subscription to <i>Revue Bryologique</i>	....	....	....	....	0	16	0
Deficit on Moss Census Catalogue Account	....				5	0	7
„ Hepatic Census Catalogue Account	....				11	13	3
Balance in hand, 31st December, 1935	....				102	19	1
					£163	9	1½

**31st DECEMBER, 1935.***ASSETS.*

Cash in hand (General Account)	....	....	....	....	£102	19	1
Subscriptions in arrear (£1 10s.), estimated to produce	....	....	....	....		10	0
					£103	9	1

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.

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The Fourteenth Annual Report of the British Bryological Society now presented shows continued success.

It is with much regret that the death of our old and esteemed member, Mr. William Bellerby, of York, on 27th March, 1936, has to be recorded. Of late years he had not been able to attend the Annual Meetings, but continued interest in the Society till the end and has contributed valuable material to the distributions.

The Annual Meeting held last August at Killarney was well attended, and the excursions were thoroughly enjoyed in beautiful weather. The extended visit to Dingle was also successful, though the weather did not prove so favourable.

An account of the Meeting, by Dr. W. Watson—reprinted from the *Journal of Botany*—is included in this Report.

An account has also appeared in the *Irish Naturalists' Journal*.

The next Annual Meeting will be held at Cheltenham from May 29th to June 5th, 1936.

It is hoped that the proposed visit to Fort William, Inverness-shire—August 25th-September 1st, 1936—may be well attended.

Needless to say that Mr. C. V. B. Marquand is well acquainted with the district and its mosses and hepatics.

Members thank our Distributors who have successfully carried out the exacting duties imposed on them, and also the Referees and Bibliographer for their valued services.

The Supplements to Census Catalogue of British Mosses (2nd Ed.) and Census Catalogue of British Hepatics (3rd Ed.), compiled by Messrs. Duncan and Wilson and distributed to members along with last Report, have been much appreciated. It should be noted that the prices of these Catalogues are now reduced to a very low figure (see cover).

Any gifts of books on Mosses or Hepatics, or of specimens, will be gladly received on behalf of the Society by Mr. W. R. Sherrin; copies of new papers for the Bibliography by Dr. L. B. C. Trotter; and specimens of new Vice-County records by Mr. J. B. Duncan (Mosses), by Mr. A. Wilson (Hepatics), and by Mr. W. R. Sherrin (Sphagna and Harpidia).

The *Revue Bryologique* is available for members to borrow if they will write to let Mr. J. H. Albrecht know they are interested.

Recent illness obliges the Secretary to express his indebtedness for Mr. Duncan's help in the work of getting out this Report.

D. A. JONES.

20th April, 1936.

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## REPORT OF DISTRIBUTORS (Mosses).

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The number of mosses contributed this year is less than for some time past. Our contributors remain much the same and the packets sent in were all useful.

Some very interesting mosses have been sent by our members on the Continent of Europe, as well as from Canada. As usual the Referees have been unsparing in their care. Most of the packets were correctly labelled and contained well prepared specimens. We may mention that it would be a great help if all the packets are marked with the Census Catalogue number of the species before being sent in for distribution.

A new Desiderata Book has been used this time, with great success.

It is hoped that the members who did not send details of their desiderata last autumn will do so in future as we can then make them a more satisfactory return.

This applies more especially to newer members and those who seldom or never contribute material to the distribution.

Those who send plants and lists will receive first consideration.

We look for more plants from Scotland and Ireland in future distributions.

Rare plants which are somewhat abundant in their few well-known stations and have been already distributed several times are scarcely wanted now, but varieties and forms of even common species are still required.

Our thanks are due to Mr. W. R. Sherrin for giving facilities for part of the distribution work to be carried out at the South London Botanical Institute, and also to Messrs. J. H. Albrecht and G. F. Horsley for dealing with the preparation of the detailed report on the mosses.

A. M. SAUNDERS.  
W. C. R. WATSON.  
E. C. WALLACE.

11th April, 1936.

## REPORT OF DISTRIBUTOR (Hepatics).

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The brevity of the following list requires some explanation. The *MS* of the complete report, unfortunately, was lost in the post and in spite of many enquiries has not so far been recovered. As the loss was not discovered until after the distribution it was impossible to re-write a complete report on the plants sent in by members. However, a list has been compiled from particulars sent in by some members with their packets.

The Distributor offers his apologies for the unfortunate mischance which has thus curtailed the hepatic report, especially to those members who sent in plants for distribution.

The number of packets sent in this year was 725, contributed by 19 members, a decrease on the numbers of 1934-5. Last year, however, included the large number of exotics sent by Dr. Verdoorn.

The Referees report that the packets have been well prepared, correctly named, and contain a good quantity of material.

C. M. BEDFORD.

Taunton,  
*April*, 1936.

## REPORT OF THE ANNUAL MEETING, 1935.

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(Extracted from *The Journal of Botany*, March, 1936, pp.80-81)

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The Annual Meeting and Foray of the above Society was held at Muckross, Killarney, August 10-17, 1935. The President, Mr. D. A. Jones, M.Sc., A.L.S., and twenty-four other members were present. At the General Meeting on August 13 thanks were tendered to Major Phelps for facilities for the exploration of Muckross demesne (National Park), to Messrs. D. B. Bradshaw and D. I. Cronin for rendering such facilities possible, and to Dr. Lloyd Praeger for help in the arrangement of some of the excursions. Cheltenham was selected as the venue for the 1936 meeting. The President, who was familiar with the district, and had given an account of its bryophytic flora in this Journal (June, 1913), gave a general description of the habitats and localities where the characteristic or rare bryophytes occurred.

The Killarney district, owing to its humid and warm climate, is the home not only of some of our rarest vascular plants, but also of some of our rarest cryptogams. During the excursions some attention was naturally paid to the former, though the field-work was chiefly concerned with the latter, especially with the bryophytes. The carboniferous limestone on the margins of the Lower Lake yielded most of the characteristic plants of such a substratum, such as *Eurhynchium circinatum*, *Marchesinia Mackaii*, and *Placodium cirrochroum*, though the oak growing on it was *Quercus sessiliflora*. The steep siliceous rocks of Eagle's Nest, the trees (*Q. sessiliflora* dominant again) on its wooded slopes, and the ground and rocks between it and Old Weir Bridge provided many rare and interesting plants. *Plagiochila punctata*, *P. spinulosa*, and *P. tridenticulata* were so abundant on the oaks that mosses and lichens were often absent, and the usual habitat distinctions between saxicolous and corticolous species were often broken down.

Torc Mt. was explored, but very little of the rare *Daltonia splachnoides* was seen. The banks and boulders by the side of the famous Torc Cascade gave a rich harvest of hepatics,

a list of which would almost become a catalogue of our rarer species. The ascent of Mangerton proved a delightful excursion, especially from a scenic point of view. Horse's Glen, Loch Erhagh, and the Devil's Punchbowl were explored on the way. A number of interesting and rare mosses were observed, and some of these were new vice-comital records. Other places investigated were Dinish, Cromaglow and O'Sullivan's Cascade. About Dinish the most common *Radula* was *R. Carringtonii*; at Cromaglow *Trichostomum hibernicum* was common, and near O'Sullivan's Cascade *Hookeria laetevirens* and *Grimmia retracta* were noted.

After the Killarney excursions fifteen members and friends travelled on to Dingle and explored the extreme west of Ireland, Sleah Head, Dunmore Head, Connor Hill and Brandon Mt. were visited.

The following is a list of new vice-county records (1, South Kerry; 2, North Kerry). Some of the *Sphagna* had been seen the previous year by Mr. A. Thompson, but have not been published till now:—

*Sphagna*.—*Sphagnum plumulosum*, Eagle's Nest (2). *S. recurvum* var. *robustum*, Mangerton (2). *S. fallax* var. *laxifolium* and var. *Schultzii*, Brandon Headland (1). *S. compactum* var. *subsquarrosum*, near Loch Cruttia (1), var. *imbricatum*, Garygarry (2). *S. obesum* var. *teretiramosum* and var. *hemi-isophyllum*, both new to Ireland, Connor Hill (1). *S. inundatum* var. *lancifolium*, Torc Mt. (2), new to Ireland. *S. aquatile* var. *intortum*, near Loch Cruttia (1), Mangerton (2), var. *sanguinale*, Loch Cruttia (1), var. *remotum*, Connor Hill (1), Mangerton and Old Weir Bridge (2), all three new to Ireland. *S. auriculatum* var. *ovatum*, Brandon Headland (1), var. *canovirescens*, Torc Mt. (2), new to Ireland. *S. crassifolium* var. *diversifolium*, Connor Hill (1), var. *magnifolium*, Old Weir Bridge (2). *S. Camussii*, Connor Hill (1), Eagle's Nest (2). *S. papillosum* var. *sublaeve*, Eagle's Nest (2).

*True Mosses*.—*Dichodontium pellucidum* var. *compactum*, Brandon Mt. (1). *Blindia acuta* var. *trichodes*, Brandon Mt. (1). *Campylopus atrovirens* var. *muticus*, Brandon Mt. and Connor Hill (1). *Dicranum uncinatum*, Eagle's Nest (2). *Fissidens pusillus*, Torc Mt., etc. (2). *F. Curnowii*, below O'Sullivan's Cascade (1). *Grimmia robusta*, near L. Cruttia (1), Brickeen Bridge (2). *G. retracta*, below O'Sullivan's Cascade (1). *G. Doniana*, near L. Cruttia (1). *Racomitrium ramulosum*, L. Naluchan (1). *Tortula atrovirens*, Sleah Head



(1). *Barbula ferruginascens*, L. Cruttia (1). *B. convoluta* var. *Sardoia*, Dingle (1). *Weisia microstoma*, Dingle (1). *Trichostomum tortuosum* var. *fragilifolium*, near Eagle's Nest (2). *Bryum caespiticium*, Dingle (1). *B. alpinum* var. *viride*, near L. Cruttia (1). *B. argenteum*, Dingle (1). *Thuidium delicatulum*, Torc Mt. (2). *Eurhynchium curvisetum*, Dingle (1). *E. myosuroides* var. *brachythecioides*, Mangerton (2). *Amblystegium tenax* (*A. irriguum*), Muckcross (2). *Hypnum molluscum* var. *fastigiatum*, Torc Mt. and Muckcross (2). *Drepanocladus falcatus*, Brandon (1).

*Hepatics*.—*Aneura major*, Dunmore Head (1). *Lophozia Muelleri*, above L. Cruttia (1). *L. bicrenata*, Mangerton (2). *Plagiochila asplenioides* var. *major*, Muckcross (2). *Odontoschisma denudatum*, Eagle's Nest (2).

W. WATSON.

## BRITISH BRYOLOGICAL SOCIETY.

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A second meeting will be held from August 26th to September 1st, 1936, at Fort William, Inverness-shire (V.C.97). Headquarters, The Station Hotel. The Palace Hotel can also be recommended. All charges are fixed each year and will be found in the annual handbooks of the Automobile Association, Royal Automobile Club and Scottish Automobile Club, published each spring. (A copy of the first-named is in nearly every hotel in England, Scotland and Wales, as well as in the hands of each of the quarter of a million members). There are also some smaller hotels in Fort William, and rooms could be engaged in private houses by any member desiring same. All members are to make their own arrangements.

Excursions will be made to Allt a' Mhuilinn and Choire Leis on the north side of Ben Nevis, Aonach Mohr and Cairn Dearg Mohr in the neighbourhood, as well as Bidean nan Bian, Buchaille Etive and other of the Glencoe mountains. If weather permits of a spare day, it is suggested the Moidart country west of Glen Finnan should be visited.

Stout, heavily nailed boots are essential for comfortable working on the steep rocks and heavy screes. An ice axe is most useful, though at this season snow is confined to the higher couloirs. On account of the risk of mist on Ben Nevis all members should carry the 1 in. to 1 mile Ordnance Survey map as well as a compass.

Members desiring to avoid all mountaineering and long days will find Glen Nevis and Glen Coe, as well as the district made classical by the researches of the late Dr. S. M. Macvicar, extremely interesting.

(Signed) C. V. B. MARQUAND.

## REPORT ON PLANTS SENT IN BY MEMBERS.

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

### SPHAGNA.

*Sphagnum Girgensohnii* Russ., Albtal, Schwarzwald (Germany), Sept., 1935, A. Sch. ; var. *stachyodes* Russ., Horbach, Schwarzwald (Germany), Sept., 1935, A.Sch.

*S. Russowii* Warnst., var. *girgensohnioides* Russ., f. *flavescens* Russ., Ben Laoigh (88), D. R. Robertson, June, 1924, det. J. A. Weldon, com. W.G.T.

*S. fuscum* (Schpr.) v. Klinggr., Kaltenbronn, Schwarzwald (Germany), Aug., 1932, A.Sch. ; Unter-Ibach, Schwarzwald (Germany), Aug., 1935, A.Sch. ; var. *tenellum* Warnst., St. Blasien, Schwarzwald (Germany), Sept., 1935, A.Sch.

*S. rubellum* Wils., var. *rubescens* Warnst., Kaltenbronn, Schwarzwald (Germany), Aug., 1932, A.Sch. ; var. *versicolor* Warnst., Kaltenbronn, Schwarzwald (Germany), Aug., 1932, A.Sch.

*S. acutifolium* Ehrh., Glen Dole (90), Aug., 1924, D. R. Robertson, com. W.G.T. ; Rannoch Moor (98), June, 1935, G.H.A. ; var. *versicolor* Warnst., Kaltenbronn, Schwarzwald (Germany), Aug., 1932, A.Sch.

*S. quinquefarium* (Lindb.) Warnst., var. *viride* Warnst., c.sp., St. Blasien, Schwarzwald (Germany), Aug., 1935, A.Sch. ; f. *gracilescens* Warnst., c.sp., St. Blasien, Schwarzwald (Germany), Sept., 1935, A.Sch.

*S. plumulosum* Roll, St. Vincent-sur-Craon, Vendée (France), Aug., 1928, J.Ch.

*S. molle* Sulliv., Wahner Heide, Rheinland (Germany), Aug., 1930, A.Sch.

*S. strictum* Sulliv., Piwick bei Valbert, Ebbegebirge, Westfalen (Germany), Oct., 1934, A.Sch.

*S. compactum* D.C., var. *subsquarrosus* Warnst., Charente-Inférieure (France), June, 1932, J.Ch. ; var. *imbricatum* Warnst., Chollerford-on-Tyne (67), Sept., 1935, E.M.L. ; Raasay Is. (104), Aug., 1935, K. Blackburn, det. et com. E.M.L. ; Piwick bei Valbert, Ebbegebirge, Westfalen (Germany), April, 1933, A.Sch.

*S. squarrosus* Pers., Csorbaitó, Comit. Liptó (Hungary), July, 1933, A.B. "This is the var. *spectabile* Russ.," E.M.L. et A.Th.

*S. teres* (Schpr.) Ångstr., Hámortó, Comit. Vas (Hungary), Aug., 1924, A.B. "This is the var. *imbricatum* Warnst.," E.M.L. et A.Th.

*S. obtusum* Warnst., near var. *recurviforme* Warnst., Dreifelder Weiher, Westerwald (Germany), Aug., 1935, A.Sch.

*S. Dusenii* C.Jens., var. *falcatum* C.Jens., Feldseemoor, Schwarzwald (Germany), Aug., 1935, A.Sch. "An interesting plant," E.M.L.

*S. amblyphyllum* Russ., var. *mesophyllum* Warnst., Raasay Is. (104\*), K. Blackburn, det. E.M.L. et A.Th., com. E.M.L.

*S. recurvum* Pal. de Beauv., Menzenschwand, Schwarzwald (Germany), no date, A.Sch. "The var. *majus* Ångstr.," E.M.L. et A.Th.; var. *submersum* Roll, f. *flavescens* Roll (between var. *robustum* Breid. and var. *majus* Ångstr.), Kaltenbronn, Schwarzwald (Germany), Aug., 1932, A.Sch. "The var. *majus* Ångstr.: many of the branch-leaves are longer than 1.6 mm.; but the plants are not large enough for the var. *robustum* Breid.," A.Th. "I agree with A.Th. that these plants are best placed under var. *majus* Ångstr.," E.M.L.

*S. molluscum* Bruch., Menzenschwand, Schwarzwald (Germany), Sept., 1935, A.Sch.

*S. subsecundum* Nees., var. *tenellum* Warnst., f. *subfalcatum* Warnst., Feldseemoor, Schwarzwald (Germany), Aug., 1935, A.Sch.; var. *intermedium* Warnst., Spielmannswies bei Witten-schwand, Schwarzwald (Germany), Sept., 1935, A.Sch.; Raasay Is. (104\*), Aug., 1935, K. Blackburn, det. A.Th., com. E.M.L.

*S. inundatum* Russ., La Roche, Vendée (France), Aug., 1929, J.Ch. "This is var. *lancifolium* Warnst.," A.Th.

*S. auriculatum* Schpr., var. *ovatum* Warnst., Brölgebiet, Rheinland (Germany), June, 1926, A.Sch.; Westburnhope (67\*), Oct., 1934, E.M.L.; var. *canovirescens* Warnst., Billinge Hill (59), Aug., 1935, W.G.T.

*S. aquatile* Warnst., Cragside, Rothbury (68\*), July, 1933, E.M.L.; Glencoe moor (98), June, 1935, G.H.A.; var. *intortum* Warnst., Stanhope Common (66), Sept., 1935, E.M.L.

*S. contortum* Schultz, Zsida, Comit. Vas (Hungary), April, 1933, A.B.

*S. platyphyllum* Warnst., Zsida, Comit. Vas (Hungary), April, 1933, A.B.

*S. crassicladum* Warnst., var. *diversifolium* Warnst., Crag-side, Rothbury (68\*), July, 1933, E.M.L.

*S. imbricatum* (Hornsch.) Russ., Rannoch Moor (98\*), June, 1935, G.H.A.

*S. papillosum* Lindb., var. *normale* Warnst., Chollerford-on-Tyne (67), Sept., 1935, E.M.L. ; Raasay Is. (104\*), Aug., 1935, K. Blackburn, det. E.M.L. et A.Th., com. E.M.L. ; Wahner Heide, Rheinland (Germany), Aug., 1929, A.Sch. ; f. *brachycladum* (Card.) Warnst., Wiehlgebiet, Rheinland (Germany), Aug., 1928, A.Sch.

*S. cymbifolium* Ehrh., Forêt de L'Absie, Deux-Sèvres (France), June, 1934, J.Ch. ; Brölgebiet, Rheinland (Germany), Oct., 1929, A.Sch.

*S. medium* Limpr., Chollerford-on-Tyne (67), Sept., 1935, E.M.L. ; Horbach, Schwarzwald (Germany), Sept., 1935, A.Sch.

## TRUE MOSSES.

## EUROPEAN (British and Continental).

*Andreaea nivalis* Hook., Ben Macdhui (92), July, 1935, E.C.W.

*Catharinea tenella* Roehl., Stallberg (Rhld.), Dec., 1934, A.Sch.; var. *Hausknechtii* Dixon, Oszatelep (Hungary), July, 1934, A.B.

*Oligotrichum hercynicum* Lam., Hobcarton Crag (70), W.R.M.; var. *laxum* Braithw., Snowdon (49), Aug., 1931, E.H.S.

*Polytrichum nanum* Neck., Silverdale (60), April, 1901, A.W.; var. *longisetum* B.E., Forêt de Secondiquy, France, March, 1934, J.Ch.

*P. aloides* Hedw., Elle, Norway, June, 1935, P.S.; var. *Dicksoni* B.E. (var. *minimum* P.B.), Nuckton Burn (66\*), Sept., 1935, E.M.L. "I think this is correct, but the capsule appears to be smooth and without the usual papillae," G.B.S. "I think *P. nanum* on account of the blunt toothing, and the capsule only lowly papillose in the lower half," H.N.D.

*P. sexangulare* Floerke, Ben Nevis, July, 1898, H.N.D., com. D.A.J.; Ben Macdhui (92), July, 1935, E.C.W.

*P. piliferum* Schreb., Mareuil sur le Lay, France, Mar., 1934, J.Ch.

*P. formosum* Hedw. (*P. attenuatum* Menz.), Gleichenberg (Stiria), Sept., 1927, A.B.

*Diphyscium foliosum* W. et M., Forêt de Secondiquy, France, Mar., 1924, J.Ch.

*Pleuridium subulatum* Rabenh., Forêt de Chantemerle, France, Feb., 1934, J.Ch.

*Ditrichum zonatum* Limpr., Cwm Dyli (49), Aug., 1931, E.H.S.

*Swartzia montana* Lindb., Verteskozma, Hungary, May, 1932 A.B.

*S. inclinata* Ehrh., Gwynfe (44), June, 1927, D.A.J.

*Saelania caesia* Lindb., Funnasdalen, Sweden, July, 1935, C.S.; Dalvik, Iceland, July, 1934, E.W.J.

*Cynodontium virens* Schp., Glen Doll (90), July, 1935, E.C.W.

*C. Wahlenbergii* Ren. et Card., Borvehodle, Norway, Aug., 1935, J.L.

*Dichodontium pellucidum* Schp., Skye (104), July, 1893, H.N.D. "Habit of var. *serratum* (cells less papillose), otherwise typical," H.N.D.; Reykjavik, Iceland, June, 1934, E.W.J.; Dormans (17\*) April, 1936, E.C.W.

*D. flavescens* Lindb., Lodore Falls (70), Aug., 1895, H.N.D.

*Dicranella heteromalla* Schp. f. *elata*, Mallièvre, France, Sept., 1927, J.Ch.

*D. cerviculata* Schp., Chollerford-on-Tyne (67), Sept., 1935, E.M.L.

*D. secunda* Lindb., Nuckton Burn (66), Sept., 1935, E.M.L.

*D. rufescens* Schp., Nuckton Burn (66), Sept., 1935, E.M.L.

*D. varia* Schp., (*D. rubra* Moenk.), Pessbudafa, Hungary, July, 1932, A.B.

*D. squarrosa* Schp., St. Blasien, Schwarzwald, Germany, Sept., 1935, A.Sch.

*Blinda acuta* B.E., St. Blasien, Schwarzwald, Germany, Sept., 1935.

*Campylopus Schwarzii* Schp., Cwm Dyli (49), Aug., 1931, D.A.J.

*C. flexuosus* Brid., Ober Habsburg, Schwarzwald, Sept., 1935, A.Sch.; var. *zonatus* Limpr., Peel Crag (67), Aug., 1935, H.A.C.

*C. setifolius* Wils., Tynygroes (48), June, 1931, D.A.J.; Eagles Nest (I.2.), Aug., 1935, J.B.D.

*C. atrovirens* de Not., Ingleton (64), April, 1935, A.T.; forma, Glen Doll (90), July, 1935, E.C.W.; var. *falcatum* Braith., L. Coruisk (104), June, 1933, J.B.D.

*C. introflexus* Brid., Forêt de Vouvant, France, Dec., 1929, J.Ch. "Correct," H.N.D.

*Dicranodontium longirostre* B.E., Tynygroes (48), July, 1888, H.N.D.

*Dicranum falcatum* Hedw., Ben Laoigh (88), July, 1922, J.R.L.; Glen Doll (90), July, 1935, E.C.W.; Ben More (88), Aug., 1917, J.R.L.; Ben Macdhuil (92), July, 1935, E.C.W.

*D. Starkei* W. et M., Dalvik, Iceland, July, 1934, E.W.J.

*D. undulatum* Ehrh., St. Blasien, Schwarzwald, Aug., 1935, A.Sch.; Haaoya, Norway, July, 1935, P.S.

*D. spurium* Hedw., Ockham Common (17), April, 1935, E.C.W. ; Haaoya, Norway, July, 1935, P.S.

*D. elatum* Lindb., Haaoya, Norway, July, 1935, P.S.

*D. Bergeri* Bland, Feldseemoor (item Ennersbach), Schwarzwald, Aug., 1935, A.Sch. ; Ford Moss (68), June, 1929, J.B.D. ; Eslof Skane, Sweden, May, 1897, H.M.

*D. scoparium* Hedw. var. *spadiceum* Boul., Langmere (28\*), Sept., 1935, E.A. ; Loch Lee (90), July, 1935, J.R.L.

*D. fuscescens* Turn., Rannoch (88), Aug., 1934, P.W.M.R. ; var. *congestum* Brid., Aoreskutan, Sweden, Aug., 1894, E. Nyman, com. H.M.

*D. Muehlenbeckii* B.E., Sukoro, Hungary, April, 1934, A.B.

*D. elongatum* Schleich., Lappmark, Sweden, 1859, J. Aongstrom, com. H.M.

*D. montanum* Hedw., Hatzendorf (Stiria), June, 1929, A.B.

*D. longifolium* Ehrh., Parad, Hungary, July, 1928, A.B. ; St. Blasien, Schwarzwald, Aug., 1935, A.Sch.

*Leucobryum glaucum* Schp., Ceunant Llenyrch (48), June, 1909, D.A.J.

*Fissidens bryoides* Hedw., Chapelle aux Lys, France, Mar., 1928, J.Ch.

*F. adiantoides* Hedw., Charente Inf., France, May, 1927, J.Ch. "The habit is slender for *F. adiantoides*, and the cells are small and obscure. It is more like *F. decipiens*," G.B.S. "*F. adiantoides*, correct," H.N.D.

*F. decipiens* de Not. (*F. cristatus* Wils.), Nagyvisnyo, Hungary, July, 1934, A.B.

*Grimmia mollis* B.E., Nystuguho, Norway, July, 1889, Chr. Kaurin et E. Ryan, com. H.M.

*Grimmia apocarpa* Hedw. var. *rivularis* W. et M., S. Laurent sur Sèvre, France, Sept., 1929, J.Ch.

*G. incurva* Schwaeg., Clee Hill (40), May, 1932, D.A.J.

*G. funalis* Schp., Red Screes (69), June, 1908, A.W.

*G. torquata* Hornsch., Cader Idris (48), Aug., 1932, A.W.

*G. Muehlenbeckii* Schp., Uppland, Sweden, Oct., 1927, H.M.

*G. Hartmani* Schp., Stocksund, Sweden, April, 1925, H.M.

*G. patens* B.E. (*Rhacomitrium patens* Hueb.), Feldsee, Schwarzwald, Aug., 1935, A.Sch.

*G. arenaria* Hampe, Dolgelly (48), July, 1901, H.N.D.



*G. ovata* Schwaeg. (*G. ovalis* Hedw.), Funnasdalen, Sweden, July, 1934, C.St.

*G. leucophaea* Grev., Mareuil sur le Lay, France, Mar., 1934, J.Ch.

*G. elongata* Kaulf., Snowdon (49), Aug., 1931, J.B.D.; Varstien, Norway, July, 1873, Berndes et Englehart, com. H.M.

*Rhacomitrium aciculare* Brid., Belstone (4), Aug., 1926, H.A.C.

*Rh. protensum* Braun, Nant Gwynant (49), July, 1935, A.T.; St. Blasien, Schwarzwald, July, 1935, A.Sch.

*Rh. fasciculare* Brid., Coire ant Saighdeir (92), July, 1934, E.C.W.

*Rh. canescens* Brid., Fossum, Norway, Mar., 1935, P.S.; forma, Snowdon (49), June, 1935, A.T.; var. *strictum*, Nunatak, Greenland, 1933, D. Leck, com. P.W.M.R.

*Hedwigia ciliata* Ehrh., Loch Lee (90), July, 1935, J.R.L.; Wernerseck, (Rhld.), June, 1914, A.Sch.

*Acaulon muticum* C.M., L. Coates (54), May, 1934, G.H.A. "Some of the plants are small enough for var. *minus*, but the bracts, though little sinuose or denticulate, greatly exceed the capsule. As is usual for specimens of this plant from arable land, there are other mosses present," W.W.

*A. triquetrum* C. Muell., Gyomro, Hungary, Mar., 1935, A.B.

*Phascum cuspidatum* Schreb. (*P. acaulon* L.), Gyomro, Hungary, Mar., 1935, A.B.

*P. curvicolium* Ehrh., Csakvar, Hungary, April, 1935, A.B.

*Pottia intermedia* Fuernr., Bardon Mill (67), Feb., 1935, E.M.L.

*P. crinita* Wils., Dunmore Head, Kerry (I.I.), Aug., 1935, H.N.D.

*P. lanceolata* C. Muell., Kaposztasmegyér, Hungary, May, 1933, A.B.

*Tortula pusilla* Mitt., Vertesboglar, Hungary, Mar., 1935, A.B.

*T. rigida* Schrad., Szar, Hungary, April, 1935, A.B. "Some packets contain *T. ambigua* mixed," W.W.

*T. aloides* de Not., Csarvar, Hungary, April, 1935, A.B. "Material not good, as few capsules are present, and these are straight as in *T. ambigua*. The obtuse leaves and the size of the spores also agree with *T. ambigua*," W.W.

*T. (Desmatodon latifolius* B.E.), Harjedalen, Sweden, July, 1934, C.St.

*T. cernua* Lindb., Aberford (64), Aug., 1927, D.A.J.

*T. muralis* Hedw., Moneycarrie (I. 40\*), Feb., 1934, A.M.I.  
 "This is var. *rupestris*. One packet contains a lot of *Barbula unguiculata*," W.W.

*T. canescens* Mont., Mouchamps, France, April, 1934, J.Ch. ;  
 Mareuil sur le Lay, France, Mar., 1934, J.Ch.

*Barbula tophacea* Mitt., Cleethorpes (54), 1935, G.H.A.

*B. Nicholsoni* Culmann, Wonham (17), Mar., 1935, E.C.W.

*B. rigidula* Mitt., Haaoya, Norway, June, 1935, P.S.

*B. Hornschuchiana* Schultz, Chollerford-on-Tyne (67),  
 Aug., 1935, E.M.L. "Some of the packets are mainly *B. Hornschuchiana*, others (marked B.r.) are mainly *B. revoluta*,"  
 W.W.

*B. convoluta* var. *Sardoa* B.E., Uffington (22), April, 1935,  
 E.W.J.

*Leptodontium flexifolium* Hampe, Bar Hill (86a), Oct.,  
 1934, J.R.L.

*Weisia crispa* Mitt. var. *aciculata* Braithw., Ightham (16\*),  
 Feb., 1893, E. M. Holmes, com. H.N.D.

*W. microstoma* C.M., Harlech (48), April, 1913, D.A.J.

*W. viridula* Hedw. var. *densifolia* B.E., Malham Cove (64),  
 May, 1926, H.N.D.

*W. mucronata* B.E., Beaulieu (11), July, 1889, H.N.D.

*W. calcarea* C.M., Wrexham (50), Aug., 1914, D.A.J.

*W. rupestris* C.M., Csobanka, Hungary, May, 1929, A.B.

*W. curvirostris* C.M., Snowdon (49), Aug., 1931, E.H.S.  
 "As all the cells are elongated, and the papillae are few or  
 absent, this comes under var. *commutata*," W.W. ; var. *scabra*  
 Lindb., Sedbergh (65), Mar., 1919, A.W.

*W. verticillata* Brid., Florencecourt (I. 33), date ? A.M.I. ;  
 Abbeystead (6), April, 1902, A.W. "Much freer from  
 calcareous matter than usual," W.W.

*Trichostomum crispulum* Bruch, Bourneau, France, Mar.,  
 1928, J.Ch. "Five of the packets are very good var. *elatum* ;  
 the other four marked / are more compact, but still go better  
 under *elatum*," W.W.

*T. hibernicum* Dixon, Killarney (I.1), Aug., 1935, D.B.B. " *T. mutabile*, sometimes with margins denticulate a short distance above the base, but not var. *littorale*. In two packets there is some admixture of *Zygodon Mougeotii*." W.W.; idem leg. J.B.D., D.A.J., H.N.D., correct.

*T. flavovirens* Bruch, Olonne, France, Oct., 1933, J.Ch.

*T. inclinatum* Dixon, Kecskemet, Hungary, June, 1934, A.B.

*T. nitidum* Schp., Arnside (59), April, 1935, A.T.

*T. tortuosum* Dixon var. *fragilifolium* Dixon, Killarney (I.2), Aug., 1935, D.A.J.

*Pleurochaete squarrosa* Lindb., Perranporth (1), May, 1935, D.A.J.

*Cinclidotus Brebissoni* Husn. (*Dialytrichia mucronata* Lindb.), St. Laurent, France, Sept., 1929, J.Ch.

*C. fontinaloides* P.B., Lorna Doone Valley (4), April, 1932, E.H.S.; Mallièvre, France, Sept., 1929, J.Ch.; Earith (31), Jan., 1934, E.W.J.

*Encalypta commutata* N. et H., Ben Lawers (88), July, 1934, E.M.L. "Much intermixed with other mosses, especially *Zygodon Mougeotii*, of which one of the packets chiefly consists," W.W.

*E. contorta* (*E. streptocarpa* Hedw.), Lindb., Nagyvisnyo, Hungary, July, 1934, A.B.

*Anoetangium compactum* Schwaeg., Braemar (92), July, 1935, E.C.W.; Uldale (65), Aug., 1918, A.W.

*Z. Stirtoni* Schp., Sandstone rocks near Claugland Point (100), Sept., 1935, J.R.L. "Seems more like *T. mutabile*. Some leaves are more or less cucullate, but it does not appear to be *T. crispulum*," W.W. "Lee's plant somewhat resembles a small form of *T. mutabile*. Sandstone rocks would not help its growth very much. The leaves at the apex of the stem are rather small," D.A.J. "I think this is *T. mutabile*, because its leaves are ligulate with scarcely any perceptible widening of the basal part, hyaline cells laxer than in *T. crispulum*, and there are traces of serration of leaf-margin towards the base. Some of the larger leaves are more or less typical of *T. mutabile*; the incurved margins towards the apex may occur in *T. mutabile* (see Limpricht). Then there is the nerve, more often reddish in *T. crispulum* or white and shiny in the lower leaves; cells papillose, if very finely," J.B.D. "This is a *Trichostomum*, either *mutabile* or *crispulum*. The leaf-margin denticulate above the base,

which suggests *mutabile*; but the size, the slightly incurved points and habit, are much more like *crispulum*, and it agrees very closely with forms of *T. crispulum* var. *brevifolium* B.E., and I should place it there," H.N.D.

*Z. conoideus* H. et T., River Hodder (60), May, 1904, A.W.

*Ulota crispa* Brid., Forêt de Chantemerle, Feb., 1934, J.Ch.  
"In the packets containing old capsules, these belong to var. *intermedia*," W.W.; Orchy (98), June, 1935, G.H.A. "In one packet there are a few capsules of *U. Ludwigi*," W.W.

*U. phyllantha* Brid., Killykergan (I.40), Feb., 1934, A.M.I.

*U. Hutchinsiae* Hamm., Brandon Mt. (I.1), Aug., 1933, J.B.D.

*Orthotrichum rupestre* Schleich., Loch Lee (90), June, 1935, J.R.L.

*O. Lyellii* H. et T., Forêt de Chantemerle, France, Feb., 1934, J.Ch.

*Schistostega osmundacea* Mohr., Taunton (5), Jan., 1933, C.M.B.

*Splachnum vasculosum* L., Lyngseidet, Norway, Aug., 1932, J.B.D.

*Tetraplodon mnioides* B.E., Glen Callater (92), July, 1935, E.C.W.

*Tayloria lingulata* Lindb., Arjeplog, Sweden, July, 1918, H.M.

*Ephemerum recurvifolium* Lindb., Comberton (29), Feb., 1934, P.W.M.R.

*Physcomitrium eurystomum* Sendtn., Oroszlany, Hungary, May, 1935, A.B.

*P. pyriforme* Brid., Nelson (59), April, 1935, A.T.

*Funaria fascicularis* Schp., Verteskozma, Hungary, April, 1935, A.B.

*F. ericetorum* Dixon, Chollerford-on-Tyne (67), Sept., 1935, E.M.L.

*F. Templetoni* Sm., Stonethwaite (70), Sept., 1933, E.H.S.

*F. calcarea* Wahl. (*F. dentata* Croome), Csakbereny, Hungary, June, 1935, A.B.

*Amblyodon dealbatus* P.B., Oroszlany, Hungary, Sept., 1935, A.B.

*Aulacomnium turgidum* Schwaeg., Siglufjordur, Iceland, June, 1935, E.W.J.; Jokkmokk, Sweden, July, 1919, H.M.

*A. palustre* Schwaeg., Horbach, Schwarzwald, Sept., 1935, A.Sch.

*Catascopium nigratum* Brid., Abries, Hautes Alpes, July, 1935, P.W.M.R. ; Tarna, Sweden, July, 1916, H.M.

*Conostomum boreale* Swartz., Lochnagar (92), July, 1935, E.C.W.

*Timmia bavarica* Herzl., Szilvasvarad, Hungary, July, 1934, A.B.

*Bartramia Halleriana* Hedw., Glen Callater (92), July, 1935, E.C.W. ; Parad, Hungary, June, 1931, A.B. ; St. Blasien, Schwarzwald, Sept., 1935, A.Sch. "This beautiful moss has long straight setae, with leaves scarcely sheathing at the base. It is *B. pomiformis* var. *crispa*," D.A.J.

*Philonotis fontana* Brid., Baerental, Schwarzwald, Aug., 1935, A.Sch.

*P. caespitosa* Wils., Eagles Crag (63), July, 1935, A.T.

*P. calcarea* Schp., Oberhabsburg, Schwarzwald, Sept., 1935, A.Sch. "This is probably correctly named *P. fontana* var. *falcata* Brid., rather than a falcate form of the type. The perigonal bracts are obtuse, the leaves more or less falcato-secund, but the branches hooked at the apex," D.A.J. "This is *P. seriata* Mitt., the nerve is quite rough at the back, and the leaves variably but often markedly seriate," H.N.D. ; Leppetel, Rhld., April, 1932, A.Sch. "One male inflorescence was found with the typical acute leaves of *P. calcarea*," D.A.J. ; Eshells Moor (67), Aug., 1935, H.A.C. "A fine plant with only archegonia present. The leaves are broader and distinctly plicate ; it belongs to *P. fontana*," D.A.J.

*P. capillaris* Lindb., Secondiquy, France, Mar., 1934, J.Ch.

*P. marchica* Brid., Eger, Hungary, Sept., 1927, A.B.

*Breutelia arcuata* Schp., Ceunant Llenyrch (48), Aug., 1931, E.H.S.

*Webera cruda* Schwaeg., Roman Wall (67), Aug., 1935, H.A.C. ; Breakneck Fall (92), July, 1935, E.C.W.

*W. sphagnicola* B.E., Feldsee Moor, Schwarzwald, Sept., 1935, A.Sch. "*W. sphagnicola* is distinguished from *W. nutans* mainly by its dioecious character. I could not find either fruit or any inflorescence on the material which I examined, and Mr. Dixon is of the opinion that it is impossible to separate the two plants without inflorescence. This is not to say that the plant is not *W. sphagnicola*, but that the evidence that it is so, is not complete," W.E.N.

*W. erecta* Lindb., Finse, Norway, Aug., 1932, J.B.D.

*W. calcarea* Warnst., Agra, N. Iraq., Dec., 1934, W. A. Macfadyer, com. H.N.D.

*Plagiobryum Zierii* Lindb., Chollerford-on-Tyne (67), Sept., 1935, E.M.L.

*Bryum filiforme* Dicks., Glen Callater (92), July, 1935, E.C.W.; var. *juliforme* Dixon, Carbis Bay (1), Nov., 1919, W.E.N.; Mareuil sur le Lay, France, Mar., 1934, J.Ch.

*B. pendulum* Schp., Cleethorpes (54), date ? G.H.A.; var. *rappinense* Podp., Alsodabas, Hungary, May, 1934, A.B. "Capsule regular, mostly slender and almost cylindrical with very small mouth. The capsule agrees with Moenkemeyer's description," D.A.J.

*B. inclinatum* Bland., Nant y Ffrith (50), Aug., 1914, D.A.J.

*B. pallens* Sw., forma, Kongsvoll, Norway, Aug., 1932, J.B.D.

*B. Duvalii* Voit., Funnasdalen, Sweden, July, 1934, C.S.

*B. cyclophyllum* B.E., Derwentwater (70), July, 1919, W.E.N.

*B. pseudo-triquetrum* Schwaeg., (*B. ventricosum* Dicks.) f. *densum* Popd. subf. *latelimbatum* Podp. c.fr., Agfalva, Hungary, Aug., 1934, A.B.

*B. pallescens* Schleich., Mugdock Village (86b), Nov., 1935, J.R.L. "The fruit is rather old, but one or two capsules showed the presence of a perfect inner peristome, and an autoicous inflorescence, the antheridia being on separate branches as in *B. pallescens*," D.A.J.

*B. caespiticium* L., Cleethorpes (54), 1935, G.H.A.; var. *macrocarpum* Warnst., Fulopszallas, Hungary, June, 1934, A.B.; f. *haematostomum* Podp., Acs, Hungary, April, 1934, A.B.

*B. capillare* L., var. *flaccidum* B.E., Verteszomlo, Hungary, June, 1934, A.B. "Some of the leaves are rather large, slightly twisted, with a few distinct teeth at the apex. It is not typical var. *flaccidum*, but may go under it," D.A.J.

*B. atropurpureum* W. et M., Cleethorpes (54), May, 1934, G.H.A.

*B. alpinum* Huds., Bieberstein, Rhld., 1927, A.Sch. "This plant with bright green upper leaves and brownish red lower leaves differs from *B. alpinum*. The leaves are wider with

laxer areolation and excurrent nerve, ending in a straight mucro. The cells are also much wider than in typical *B. alpinum*. It belongs to *B. Mildeanum* Jur.," D.A.J.; var. *viride* Husn., Brandon Mt. (I.1\*), Aug., 1934, J.B.D.

*B. Muehlenbeckii* B.E., Inchnadamph (108), July, 1921, W.E.N.

*B. argenteum* L., var. *lanatum* B.E., St. Cyrus (91), July, 1935, J.R.L.

*B. roseum* Schreb., Dove Dale (57), May, 1935, E.C.W.

*Mnium Blyttii* B.E., Finse, Norway, Aug., 1932, J.B.D.

*M. spinosum* Schwaeg., Les Diablerets (Vaud), July, 1922, W.E.N.

*M. punctatum* L., Ullern, Norway, Nov., 1934, P.St.

*M. hymenophyllum* B.E., Kongsvoll, Norway, Aug., 1932, J.B.D. "See note by W.E.N. in last year's report."

*Clinclidium stygium* Swartz., c.fr., Lyngseidet, Norway, July, 1932, J.B.D.

*Fontinalis antipyretica* L., var. *montana* H. Moell., Dalarna, Sweden, July, 1909, H.M.

*F. squamosa* L., River Bann (I.40), Aug., 1935, W.R.M. "This *Fontinalis* grows on saline mud on estuarian flats in company with *Juncus Gerardi*. There are no rocks. The habitat is covered at high tide. The river Bann enters the sea after running through more than half a mile of sand dunes, and it is immediately landward of the dunes where the *Fontinalis* grows. Mr. Dixon thinks it is a very broad-leaved, dull form of *F. squamosa*. Mr. Duncan, however, thinks it is an unkeeled form of *F. antipyretica*. The plant is certainly peculiar, and its salt habitat unusual," W.R.M. "I agree with Mr. Dixon, and I have nothing further to add," D.A.J.

*F. hypnoides* Hartm., Stockholmstrakten, Sweden, July, 1920, H.M.

*F. sparsifolia* Limpr., Ostergotland, Sweden, Oct., 1920, H.M.

*Dichelyma falcatum* Myrin., Dalarna, Sweden, Oct., 1908, H.M.

*Neckera pennata* Hedw., Zinkertal, Austria, Aug., 1908, W.E.N.

*N. crispa* Hedw., Forêt de Vouvant, France, Feb., 1928, J.Ch.

*N. turgida* Jur., Ficuzza, Sicily, May, 1914, H.N.D. et W.E.N., com. W.E.N.

*N. Besseri* Jur., Mor, Hungary, May, 1933, A.B.

*N. pumila* Hedw., Forêt de Chantemerle, France, Feb., 1934, J.Ch.

*Homalia trichomanoides* B.E., Baerums Verk, Norway, Sept., 1935, P.S.

*H. lusitanica* Schp., Majorca, June, 1905, W.E.N.

*Leucodon sciuroides* Schwaeg., Interlaken, Switz., May, 1934, D.B.B.

*Pterogonium gracile* Swartz., Chantonay, France, Mar., 1934, J.Ch. ; Gwynant Valley (49), July, 1935, A.T.

*Antitrichia curtispindula* Brid., Craig na Cailleach (88), July, 1930, J.R.L. ; Haaoya, Norway, July, 1935, P.S. ; Heyshott Down (13), June, 1935, E.C.W.

*Porotrichum alopecurum* Mitt., Puck's Glen (98), June, 1935, A.M.I.

*P. angustifolium* Dixon, Cressbrook Dale (57), Sept., 1909, W.E.N.

*Myurella apiculata* B.E., Kongsvoll, Norway, Aug., 1932, J.B.D. "Mr. Duncan has sent a generous contribution of this rare species in fine condition with several specimens in fruit," D.A.J.

*Leskea nervosa* Myrin., Repashuta, Hungary, June, 1932, A.B.

*Anomodon rostratus* Schp., Isztimer, Hungary, May, 1932, A.B.

*A. apiculatus* B.E. (*A. Rugelii* C. Muell.), Geiser Wald (Rhône), May, 1890, A. Geheeb, com. H.M. ; Vastergotland, Sweden, Aug., 1914, E. Jaederholm, com. H.M. ; Akershus, Norway, July, 1880, F. Kiaer, com. H.M.

*A. attenuatus* Hueb., Manfa, Hungary, Sept., 1929, A.B.

*A. viticulosus* H. et T., Bakonyana, Hungary, May, 1932, A.B.

*Leptodon Smithii* Mohr., Chantonay, France, Mar., 1934, A.Ch.

*Pterygynandrum filiforme* Hedw., Lyngseidet, Norway, July, 1932, J.B.D. ; Glen Callater (92), July, 1935, E.C.W. ; Feldsee, Schwarzwald, Aug., 1935, A.Sch. ; var. *heteropterum*



B.E., Kongsvoll, Norway, Aug., 1932, J.B.D.; Loch Lee (90), July, 1935, J.R.L. "More robust than the type, with thicker obtuse and curved branches. The leaves are secund. It is a good var. *heteropterum*," D.A.J.

*Heterocladium dimorphum* B.E., Eyjafjordur, Iceland, July, 1934, E.W.J.; Chamonix, Haute Savoie, July, 1922, W.E.N.

*Pseudoleskea atrovirens* B.E., Glen Callater (92), July, 1935, E.C.W.; Lyngseidet, Norway, Aug., 1932, J.B.D.; Grimsey, Iceland, E.W.J.

*Claopodium Whippleanum* Kindb., Bussaco, Portugal, May, 1911, H.N.D. et W.E.N., com. W.E.N.

*Thuidium abietinum* B.E., Whittington (33), Dec., 1913, D.A.J., com. W.E.N.

*Th. hystricosum* Mitt., Magilligan Sandhills (I.40\*), Aug., 1935, W.R.M.

*Th. tamariscinum* B.E., Moneycarrie (I.40), Dec., 1935, A.M.I.

*Th. delicatulum* Mitt., Llyn Dinas (49), July, 1935, A.T.

*Th. Philiberti* Limpr., Boxhill (17), April, 1935, E.C.W.

*Climacium dendroides* W. et M., Penyghent (64), Aug., 1934, H.A.C.

*Cylindrothecium concinnum* Schp., Craig na Cailleach (88), July, 1930, J.R.L.

*Orthothecium rufescens* B.E., Killin (88), Aug., 1935, D.B.B.

*Camptothecium Philippeanum* Kindb., Szilvasvarad, Hungary, May, 1931, A.B.

*C. nitens* Schp. (*C. trichodes* Broth.), Burntridg Moor (67), July, 1935, E.M.L.; Agfalva, Hungary, Aug., 1934, A.B.; Lyngseidet, Norway, Aug., 1932, J.B.D.

*Brachythecium glareosum* B.E., Finse, Norway, Aug., 1932, J.B.D.

*B. reflexum* B.E., Lyngseidet, Norway, Aug., 1932, J.B.D.

*B. populeum* B.E., Lyons la Forêt, France, July, 1935, E.W.J.

*B. plumosum* B.E., Glen Callater (92), July, 1935, E.C.W.

*B. caespitosum* Dixon, Maillé, France, April, 1929, J.Ch.

*Hyocomium flagellare* B.E., Orchy (98), June, 1935, G.H.A.

*Eurhynchium crassinervium* B.E., Mervent, France, May, 1931, J.Ch.

*E. speciosum* Schp., Eger, Hungary, Aug., 1929, A. Bartha, com. A.B.

*E. Teesdalei* Schp., Wrexham (50), Jan., 1925, D.A.J.

*E. myosuroides* Schp., Knockmult (I.40), May, 1934, A.M.I. ; var. *rivulare* Holt, Erwood (42), Sept., 1896, C.H.B., com. E.C.W.

*E. myurum* Dixon, Tynygroes (48), Mar., 1910, D.A.J. "A robust form, but not var. *robustum* B.E. See Handbook," D.A.J. ; Kalmanca, Hungary, Aug., 1927, A.B.

*E. circinatum* B.E., Innisfallen (I.2), Aug., 1906, D.A.J.

*E. strigosum* B.E., var. *diversifolium* Lindb., Dalvik, Iceland, July, 1934, E.W.J.

*E. striatum* B.E., St. Blasien, Schwarzwald, Aug., 1935, A.Sch.

*E. striatulum* (*Isothecium filescens*) B.E., Bakonyana, Hungary, May, 1932, A.B.

*E. meridionale* de Not., Portland (9), April, 1930, H.A.C. "E. meridionale is here, but most, if not all, of the packets contain an admixture of *E. striatum*," J.B.D.

*Sematophyllum micans* Braithw., Eagles Nest (I.2), Aug., 1935, H.N.D. ; Seatoller (70), June, 1935, W.R.M.

*Plagiothecium depressum* Dixon var. *cavernarum* Laemm., Klotildliget, Hungary, May, 1928, A.B.

*P. elegans* Sull., Treize Vents, France, May, 1932, J.Ch.

*P. Roeseanum* B.E., Kohanyas, Hungary, May, 1933, A.B.

*P. undulatum* B.E., Helgeren, Norway, Nov., 1934, P.S.

*Amblystegium Sprucei* B.E., Szilice, Hungary, Sept., 1929, A.B.

*A. serpens* B.E., Formby (59), Dec., 1905, J. A. Wheldon, com. W.G.T.

*Hypnum polygamum* Schp., var. *stagnatum* Wils., Ainsdale (59), July, 1924, J. A. Wheldon, com. W.G.T.

*H. stellatum* Schreb., Lewes (14), May, 1935, E.C.W. ; var. *protensum*, Arnside (69), April, 1935, A.T.

*H. Halleri* Linn. fil., Steckhorn, Switz., July, 1935, E.W.J.

*Hypnum aduncum* Hedw. (*Drepanocladus Kneiffii* Warnst.), Alsodabas, Hungary, Oct., 1928, A.B. "This is var. *gracile-scens* Schp.," W.R.S. ; var. *paternum* Sanio., Silverton (3), May, 1910, G.B.S., com. D.A.J.

*H. (Drep. capillifolius* Warnst), var. *squarrosus* Roth et v.B., Livonia, Aug., 1913, W.v.Bock, com. H.M.

*H. Sendtneri* Schp., f. *gracilescens* Sanio, Ainsdale (59), June, 1933, W.G.T.

*H. Wilsoni* Schp., Ainsdale (59), June, 1933, W.G.T.

*H. lycopodioides* Schwaeg., f. *obesum* Warnst., Freshfield (59), Oct., 1908, J. A. Wheldon, com. W.G.T.

*H. fluitans* L., Menzenschwand, Schwarzwald, Aug., 1935, A.Sch.; var. *Jeanbernati* Ren., Skipworth Common (61), Sept., 1900, W. Ingham, com. D.A.J.

*H. exannulatum* Guemb., Ben Macdhui (92), July, 1935, E.C.W.; var. *orthophyllum* Milde., Wisacksumpf, Livonia, Aug., 1907, v. Bock, com. H.M.

*H. uncinatum* Hedw., forma, Akureyri, Iceland, Aug., 1935, K. M. Crosse, com. E.A.; forma, Lyngseidet, Norway, Aug., 1932, J.B.D.

*H. vernicosum* Lindb., Leksand, Sweden, Aug., 1911, H.M. "I would rather call this *H. intermedium*. The leaves are not plicate, and the stem section appears to agree," J.B.D. "I agree that this is *H. intermedium*. The form with stem leaves lightly striate," H.N.D.

*H. revolvens* Swartz., Cwm Idwal (49), Aug., 1931, E.H.S.; Lyngseidet, Norway, Aug., 1932, J.B.D.

*H. intermedium* Lindb., Borvehodle, Norway, Aug., 1935, J.L.

*H. badium* Hartm., Medepad, Sweden, date ?, J. Aongstrom, com. H.M.

*H. decipiens* Limpr., Tirol, Aug., 1913, leg. Th. Suse, com. H.M. "This plant, which was distributed last year turns out to be *H. falcatum*, as noticed afterwards by J.B.D. and confirmed by W.E.N."

*H. falcatum* Brid., Jemtland, Sweden, July, 1902, C. Brandel, com. H.M.; Hasle, Sweden, July, 1901, H.M.

*H. cupressiforme* L., Moneycarrie (I.40), Dec., 1935, A.M.I.; var. *ericetorum* B.E., Broughton Woods (54\*), May, 1935, E.M.L.

*H. Patientiae* Lindb., Dalvik, Iceland, July, 1934, E.W.J.; Orchy (98), June, 1935, G.H.A. "This is *H. scorpioides* L.," J.B.D.; (*H. arcuatum* Lindb. vel *Stereodon Lindbergii* Mitt.), Gosau, Austria, Aug., 1891, leg. Eisenbach, com. H.M.; Hamburg, Sept., 1894, Th. Suse, com. H.M.; Tirol, Aug.,

1895, Th. Suse, com. H.M. ; var. *demissum* Schp., Laubach, (Hessen), Sept., 1901 et 1910, G. Roth, com. H.M. ; Cracow, Poland, July, 1911, A. Zmuda, com. H.M.

*H. hamulosum* B.E., Cwm Glas Mawr (49), Aug., 1931, E.H.S. ; Kongsvoll, Norway, Aug., 1932, J.B.D.

*H. Bambergeri* Schp., Kongsvoll, Norway, Aug., 1932, J.B.D.

*H. molluscum* Hedw. var. *fastigiatum* Bosw., Torc Mt. (I.2), Aug., 1935, D.A.J. ; Torc Mt. (I.2), Aug., 1935, J.B.D.

*H. crista-castrensis* L., Aviemore (96), Aug., 1934, D.B.B. ; St. Blasien, Schwarzwald, Aug., 1935, A.Sch. ; Seatoller (70), Sept., 1933, E.H.S.

*H. arcticum* Sommerf., Ben Lawers (88), Aug., 1902, D.A.J. ; Tolmount (92), July, 1935, E.C.W.

*H. eugyrium* Schp., var. *Mackayi* Schp., Mangerton Mount (I.2), Aug., 1935, H.N.D.

*H. ochraceum* Turn., Lyngseidet, Norway, Aug., 1932, J.B.D.

*H. alpinum* Schp., Kongsvoll, Norway, Aug., 1932, J.B.D. "Mr. Dixon agrees that this plant is *H. alpinum*, although the leaves are longer in proportion to their breadth than is usual with this species, where they are generally almost orbicular," W.E.N.

*H. rivulare* Broth., Finse, Norway, Aug., 1932, J.B.D. ; Harjedalen, Sweden, July, 1934, C.S.

*H. scorpioides* L., Thursley Common (17), March, 1935, E.C.W.

*H. stramineum* Dicks., Whitby-Guisborough Moor (62), Aug., 1935, H.A.C.

*H. trifarium* W. et M., Ben Lawers (88), Aug., 1903, D.A.J.

*H. giganteum* Schp., Burntridg Moor (67), Aug., 1935, E.M.L.

*H. sarmentosum* Wahl., Ben Avon (92), July, 1935, E.C.W. ; Lyngseidet, Norway, Aug., 1932, J.B.D.

*Hylocomium splendens* B.E., St. Blasien, Schwarzwald, Sept., 1935, A.Sch. ; Killykergan (I.40), Jan., 1934, A.M.I.

- H. umbratum* B.E., Haaoya, Norway, Oct., 1935, P.S.
- H. pyrenaicum* Lindb., Hvalstad, Norway, Oct., 1935, P.S.
- H. brevirostre* B.E., Forêt de Secondiquy, France, Mar., 1934, J.Ch. ; Horner Woods (5), April, 1932, E.H.S. "This is *Eurhynchium striatum*," J.B.D.
- H. loreum* B.E., Falls of Falloch (87a), May, 1934, J.R.L.
- H. triquetrum* B.E., Moneycarrie (I.40), Dec., 1935, A.M.I.
- H. rugosum* de Not., Magilligan Sandhills (I.40), Aug., 1935, W.R.M.

**NON-EUROPEAN (Including specimens of European species from Countries outside Europe).**

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*Pilopogon exasperatus* Brid., Pangerango (Java), April, 1897, H.j.M. "Cardot has shown that the group of mosses to which this belongs must not be included in *Pilopogon*, but—if kept separate as a genus—to *Thysanomitrium* Schwaegr. Thériot has, however, shown conclusively, I think, that it cannot be separated from *Campylopus*, and it should be known as *C. exasperatus* Brid.," H.N.D.

*Leucoloma Billardieri* (Schwaegr.) Broth., Puerto de Corral (Chile), Nov., 1896, P. Dusén, com. H.j.M. "This is now known as *Dicranoloma Billardieri* (Schwaegr.) Par.," H.N.D.

*Calymperes Hendelotii* Besch., Libreville, Gabon (French Equatorial Africa), Dec., 1934, C. Chaillot, com. J.Ch.

*Bryum Villei* Card. et La V., Shembaganur (India), Mar., 1932, Rev. Père G. Foreau, com. J.Ch.

*Mnium coriaceum* Griff., Pillar rocks, Madura (India), May, 1924, Rev. Père G. Foreau, com. J.Ch. "Fleischer points out that this differs from *M. rostratum* only in the much smaller cells, and he, therefore, reduces it to a synonym of that. The difference in the size of the cells, however, is very marked (circa  $13\mu$  wide as compared with circa  $25\mu$ ) and is very constant in any given gathering. I, therefore, prefer to keep it as a variety, and I think it should be known as *M. rostratum* var. *coriaceum* (Griff.) Dixon," H.N.D.

*Zygodon conoideus* H. et T., Lake Anne's, Nova Scotia, July, 1935, M.S.B. "No capsules but gemmae and other characters right," W.W.

*Rhacopilum mauritianum* C. Müll., Curepipe (Mauritius), Feb., 1878, Capt. Landmark, com. J. Lid.

*Dendrocryphaea tasmanica* (Mitt.) Broth., R. Hoporna, North Island (New Zealand), 1932, G. O. K. Sainsburg, com. J.Ch.

*Lepyrodon australis* Hampe, Panikari Range, North Island (New Zealand), Nov., 1933, G. O. K. Sainsburg, com. J.Ch.

*Papillaria nigrescens* (Hedw.) Jaeg., Onopo (Trinidad), 1929, P.W.M.R.

*Papillaria fuscescens* Hook., Pangerango (Java), April, 1897, H.j.M.

*Neckera pseudo-imbricata* C. Müll., Johanna (Comoro Islands), April, 1875, Hildebrandt, com. Bensch, com. H.j.M. "This is a very old name. The modern name is *Pilotrichella pseudo-imbricata* (C.M.) Jaeg.," H.N.D.

*Thelia hirtella* (Hedw.) Sulliv., Annapolis Co. (Nova Scotia), Aug., 1934, M.S.B.

*Rhegmatodon secundus* Kiaer, Ankaratra (Madagascar), 1877, Martin Borgen, com. J. Lid. "Original specimen," J.L.

*Haplocladium Torskii* (Kiaer) Broth., Ocompo (Argentina), 1880-81, Torsk, com. J. Lid. "Type specimen; see Carol. Müller in 'Hedwigia,' 36, 144, sub nom. *Thuidium Torskii* Kiaer," H.N.D.

*Hypnum Kiaerii* C. Müll. in MS., (Madagascar), 1876, Martin Borgen, com. J. Lid. "This is a synonym of *H. aduncoides* (Brid.) C. Müll.," H.N.D.

*Hypnum (Cupressina) gracilirameum* C. Müll., in MS., Curepipe (Mauritius), 1500 ft., Feb., 1878, Capt. Landmark, com. J. Lid. "I do not know this; it is an unpublished name. It seems to keep its habit, etc., constant. I think it is almost certainly a small form of the very variable *Ectropothecium regulare* (Brid.) Jaeg.," H.N.D.

*Microthamnium cygnicollum* (Hampe) C. Müll., Umpumolo (Natal), Jan., 1867, Martin Borgen, com. J. Lid.

*Catharinea crispa* James, Halibut Cove, Halifax Co. (Nova Scotia), Oct., 1935, M.S.B.

## HEPATICS.

## EUROPEAN (British and Continental).

*Riccia Beyrichiana* Hampe, rocks near the sea, The Lizard, Cornwall (1), Nov., 1933, W. E. Nicholson.

*R. Bischoffii* Hübén., Verteskozma, Hungary, April, 1935, A.B.

*R. nigrella* D.C., Mareuil sur le Lay, Vendée, France, Mar., 1934, J.C.

*Ricciocarpus natans* L. Corda, Kiskoros, Hungary, May, 1934, A.B.

*Tessallina pyramidata* (Raddi.), Dum., Csakvar, Hungary, April, 1934, A.B.

*Clevea hyalina* (Somm.), Lindb., Csakvar, Hungary, May, 1934, A.B.

*Grimaldia fragrans* (Balb.), Corda, Vertessomlo, Hungary, April, 1935, A.B.

*Fimbriaria fragrans* (Schleich.), Nees, Kiskecskehegy, near Budapest, Hungary, Mar., 1934, A.B.

*Aneura pinguis* L., Dum., Banhida, Hungary, 1934, A.B.

*Metzgeria furcata* (L.), Dum., St. Blasien, Schwarzwald, Germany, Aug., 1935, A.S. "Type, mixed with var. *fruticulosa* (Dicks.) Lindb.," F.E.M.; Vargesztes, Hungary, April, 1935, A.B.; Verteskozma, Hungary, May, 1932, A.B.

*M. conjugata* Lindb., St. Blasien, Schwarzwald, Germany, Aug., 1935, A.S.

*M. pubescens* (Schrank.), Raddi, Szilice, Hungary, Sep., 1932, A.B.

*Pellia endiviaefolia* (Dicks.) Lindb., Croszlany, Hungary, Oct., 1935, A.B.; Abaliget, Hungary, Sep., 1929, A.B.

*Marsupella Funckii* Dum., Forêt de Chantermerle, France, Feb., 1934, J.C.

*M. emarginata* (Ehrh.) Dum., St. Blasien, Schwarzwald, Germany, Aug., 1935, A.S.; Deux-Sèvres, France, Mar., 1934, J.C.

*Aplozia crenulata* Dum., var. *gracillima* (Sm.) Heeg, Forêt de Chantemerle, Feb., 1934, J.C.



*Lophozia Schultzii* (Nees), Schiffn., var. *laxa* Schiffn., Flordon, Norfolk, H.H.K.

*L. bicrenata* Dum., Forêt de l'Absie, Deux-Sèvres, France, Mar., 1933, J.C.

*L. quinquedentata* (Huds.) Cogn., Sewingshields Crags (67), Sept., 1935, E.C.W. and E.M.L., com. E.M.L.; Cogniaux, Csakbereny, Hungary, June, 1935, A.B. "Not crispate when dry, leaves chiefly 4-lobed, postical margin not much arched, trigones small. It is *L. barbata* (Schmid.) Dum.," F.E.M.

*L. Floerkii* Schiffn., Ober-Habsberg bei Krummenkreuz, Schwarzwald, Germany, Sept., 1935, A.S.

*L. obtusa* (Lindb.) Evans, Staward (67), Sept., 1935, E.C.W. and E.M.L., com. E.M.L.

*Sphenolobus minutus* (Crantz) Steph., St. Blasien, Schwarzwald, Germany, Sept., 1935, A.S.; Blanksjo in Aker, Norway, Nov., 1934, P.S.

*S. Hellerianus* (Nees), Steph., Jämtland, Sweden, 1935, C.S.

*Plagiochila spinulosa* (Dicks.), Dum., Bellingham (67), Sept., 1935, E.C.W. and E.M.L., com. E.M.L.; Llyn Dinas, Nant Gwynant, Carnarvon (49), July, 1935, A.T.

*Leptoscyphus anomalus* (Hook.) Mitt., Feldberg, Feldseemoor, Schwarzwald, Germany, Aug., 1935, A.S.

*Lophocolea minor* Nees, Verteskozma, Hungary, April, 1935, A.B.

*Chiloscyphus pallescens* (Ehrh.), Dum., cum sporog., Vargesztes, Hungary, April, 1935, A.B.

*Cephalozia macrostachya* Kaal, from E.C.W. "This consists chiefly of *C. connivens* (Dicks.) Lindb.," F.E.M.

*Saccogyna viticulosa* (Sm.) Dum., Rocks near Bochyn, W. Cornwall (1), Nov., 1935, W.E.N.

*Nowellia curvifolia* (Dicks.) Dum., St. Blasien, Schwarzwald, Germany, Aug., 1935, A.S.

*Cephaloziella Nicholsoni* Douin et Schiffn., Copper-bearing rocks, Carbis Bay, W. Cornwall (1), May, 1935, W.E.N.

*Odontoschisma Sphagni* (Dicks.) Dum., Sewingshields Crags (67), Sept., 1935, E.C.W. and E.M.L., com. E.M.L.; Sullington, Warren, West Sussex (13), May, 1935, E.C.W.

*Mastigobryum trilobatum* Nees (= *Bazzania trilobata* (L.) Gray), St. Blasien, Schwarzwald, Germany, Aug., 1935, A.S.

*Bazzania tricrenata* (Wahlb.) Pers., Feldsee, Grüblewand, Schwarzwald, Germany, Aug., 1935, A.S.

*Lepidozia setacea* (Web.) Mitt., Feldseemoor, Schwarzwald, Germany, Aug., 1935, A.S.

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

*Chandonanthus setiformis* (Ehrh.) Lindb., Harjedalen, Funnasdalen, Sweden, 1935, C.S.

*Ptilidium pulcherrimum* (Web.) Hampe, Haaoya in Frogn, Norway, June, 1935, P.S.

*Diplophyllum albicans* (L.) Dum., Blanksjo in Aker, Norway, Nov., 1934, P.S.

*Scapania compacta* Dum., Mareuil, Vendée, France, Mar., 1934, J.C.

*S. subalpina* (Nees), Dum., Funnasdälen, Sweden, 1934, C.S.

*S. aequiloba* (Schwaeg.) Dum., Teesdale (66), Sept., 1935, E.M.L.

*S. aspera* Bernet, Kithurst Hill, W. Sussex (13), May, 1935, E.C.W. ; Vargesztes, Hungary, April, 1935, A.B.

*S. undulata* (L.) Dum., Haaoya in Frogn, Norway, June, 1935, P.S.

*S. paludosa* K. Müll., Funnasdälen, Sweden, 1934, C.S.

*Radula complanata* Dum., Vendée, France, April, 1929, J.C.

*R. Lindenbergiana* Gottsche, Blekinge, Kristianopol, Sweden, 1935, C.S.

*R. aquilegia* Tayl. wet gneiss rocks, alt. c. 1000 ft., Slieve-more, Achill Island (I.27), Aug., 1933, P.W.R.

*Madotheca laevigata* (Schrad.), Dum., Parad, Hungary, June, 1931, A.B. "Two of the packets contain the var. *Thuja* Nees. The others are more or less typical," F.E.M.

*M. Thuja* (Dicks.) Dum., rocks near Bochyn, W. Cornwall (1), Nov., 1935, W.E.N.

*Porella platyphylla* (L.) Lindb. (= *Madotheca platyphylla* L., Dum.) Vefsrud in Lier, Norway, June, 1935, P.S. ; Koszeg, Hungary, Sept., 1930, A.B.

*M. Cordeana* (Hüben) Dum., Blanchland (67), June, 1935, E.M.L.

*Cololejeunea calcarea* (Lib.), Spruce, Nagyvisnyo, Hungary, July, 1934, A.B. "The dentate and papillose lobe of the leaf and the nearly cylindrical not conical papillae show this to be *C. Rossettiana* (Massal.) Schiffn.," F.E.M.

*Lejeunea cavifolia* (Ehrh.) Lindb., from A.S., A.B., E.C.W. "Yes, these are *L. cavifolia* (Ehrh.) Lindb., emend. Buch," F.E.M.

*L. planiuscula* (Lindb.) emend. Buch, rocks by the roadside near Bochyn, The Lizard, W. Cornwall (1), Nov., 1935, W.E.N.

*Microlejeunea ulicina* (Tayl.) Evans, Forêt de Chantemerle, Deux-Sèvres, France, Feb., 1934, J.C.

*Jubula Hutchinsiae* (Hook), Dum., Lydford, S. Devon (3), Sept., 1935, H.H.K. and W.W.

*Frullania tamarisci* (L.), Dum., Csakbereny, Hungary, April, 1934, A.B.

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#### NON-EUROPEAN.

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*Fimbriaria tenera* Mitt., Nouvelle-Zélande, Oct., 1932, leg. K. W. Allison, com. J.C.

*Chiloscyphus triancanthus*, Nouvelle-Zélande, Oct., 1933, leg. K. W. Allison, com. J.C.

*Trichocolea lanata*, Nouvelle-Zélande, Feb., 1931, leg. K. W. Allison, com. J.C.

*Frullania serrata*, Shembaganur, Indes Anglaises, Mar., 1932, leg. R. Pe. G. Foreau, com. J.C.

## LEJEUNEA PLANIUSCULA (Lindb.) emend. Buch.

In common, I believe, with many other students of the hepatics, *L. cavifolia* Lindb. var. *planiuscula* Lindb., as described in the current text books, has always been a source of perplexity to me. It is true that I had in my herbarium several specimens which purported to belong to the variety, but the characters which were supposed to separate them from the type were not very convincing. The only reliable character appeared to be the relatively large underleaves of the variety, but these were frequently not appreciably larger than they were in plants generally agreed to belong to the type.

On the other hand I had frequently gathered in West Cornwall a plant with small distinct underleaves and almost orbicular antical lobes which I thought in the field might be *L. patens* Lindb., but which on examination appeared to belong to *L. cavifolia* as understood in the text books. I did not, however, feel quite satisfied with this solution and I was therefore pleased to read an article by Dr. H. Buch in "La Revue Bryologique et Lichenologique, Tome VII.," pp. 238 *et seq.*, when, in giving an account of mosses collected in the North West of the Spanish peninsula he goes into the question of the Atlantic species of *Lejeunea* very closely. In the course of his remarks he has no difficulty in showing that the difficulties which have arisen over this plant were due to the fact that by an unfortunate *lapsus calami* Lindberg in his original description of the plant as forma *planiuscula* of *L. serpyllifolia* transferred the most crucial character by which it is distinguished from his forma *cavifolia* viz., the size of the underleaves which are relatively small in *planiuscula* i.e., equal or half the size of the postical lobe and relatively large in *cavifolia* i.e., twice to four times the size of the postical lobe thereby making the plant with the large underleaves forma *planiuscula*.

This error has been followed by all subsequent authors until the appearance of Dr. Buch's article. That such transference was an error is shown by the fact that the specimens in Lindberg's herbarium which he refers to forma *planiuscula* have the relatively small and distinct underleaves and other characters of *L. planiuscula* as now understood, while his forma *cavifolia* has the large approximate underleaves and other characters of *L. cavifolia* as now understood.

Curiously enough the late Mr. W. H. Pearson in his "Hepaticae of the British Isles," Vol. II., plate X., figs 2 and 3 gives accurate drawings of the true *planiuscula* from specimens in Lindberg's herbarium but in his description of the plant which seems to be a literal translation of that of Lindberg he fails to recognise the discrepancy between this and the plant. In the same plate, fig. 4, Mr. Pearson gives a fairly accurate drawing of typical *L. cavifolia*.

Besides the difference in the underleaves *L. planiuscula* differs from *L. cavifolia* in the almost spherical shape of the antical lobe which is more or less ovate in *L. cavifolia*, in the form of the perianth in which the angles are wider in *L. planiuscula* than in *L. cavifolia* and in the oil-bodies which are composite and few and disappear rapidly on the death of the plant in *L. planiuscula* while in *L. cavifolia* they are simple, very numerous (25-50) in each cell and persistent, being often found in quite old herbarium material. Dr. Buch indeed makes out a good case for the acceptance of *L. planiuscula* as a good species more nearly related to *L. patens* Lindb., than to *L. cavifolia*.

*L. planiuscula* appears to be a plant of Atlantic distribution and in the British Isles it is found in S.W. Ireland, the Western coast of Scotland, Wales and Cornwall. It also extends along the South coast at least as far East as the Isle of Wight.

*L. cavifolia* on the other hand, though sometimes growing with *L. planiuscula*, occurs in the inland and Eastern parts of England. All the plants in my herbarium from Central and Southern Europe belong to this species. I have not seen it in West Cornwall where *L. planiuscula* is very abundant.

WM. EDW. NICHOLSON.

## CEPHALOZIA AFFINIS LINDB., IN IRELAND.

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 By D. A. JONES, M.Sc., A.L.S.
 

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In yellowish green patches, in habit like *Ceph. media* Lindb. Stems prostrate without flagellae, oval in cross-section. Leaves loosely inserted on the stem, antical margin decurrent, almost circular, 7-10 cells broad,  $\frac{1}{4}$ , rarely  $\frac{1}{3}$  bi-lobed, lobes acute. Under-leaves absent. Cells 30-40  $\mu$ , a few longer. Female inflorescence on a short branch. Perichaetial bracts irregularly 3-lobed or 2-lobed with a blunt tooth on the outer margin of each. Bracteoles almost as large and of same form. Perianth bluntly trigonous above, contracted at mouth, divided into short laciniae forming teeth 2-3 cells long. Perianth unistratose in lower part. Capsule reddish-brown, oval. Spores, 8  $\mu$  in diameter, finely papillate. Androecium occupying short spicae near the female inflorescence, the bracts concave, each containing an antheridium. Gemmae unknown. Fruit, ripe in summer.

On the ground by side of path among Rhododendrons near Old Weir Bridge, Killarney.

The above description is mostly borrowed from Dr. Karl Müller's "Die Lebermoose."

*Ceph. affinis* is closely allied to *Ceph. media* but is distinguished from it by its monoicous (autoicous) inflorescence, larger cells and the somewhat more strongly toothed mouth of the perianth. Specimens gathered by Justin in Finland were *paroiicous* and named by Lindberg. The Killarney plant is probably *dioicous* but with the distinct perianth mouth of *Ceph. affinis*.

The plant was first detected by Prof. Schiffner in material sent him by me, collected in Killarney in August, 1935. The perianth was found also by him in the same gathering.

It grew with *Calypogeia fissa*, *Cephalozia hibernica* and *Plagiothecium elegans*.

Original Station:—Östergötland, Sweden, by Motala. U.S. America (Austin Hep. Bor. Americ. No. 57) det. Lindberg.

This rare hepatic has not been found hitherto in Central Europe.

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An asterisk (\*) denotes that a copy of the work has been presented to the Library.

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Once more I must express my thanks to all those who have assisted me in compiling this list and the Index by forwarding reprints either for perusal or for presentation to the Library. In the work of indexing especially it is a very great advantage to be able actually to read the original works, for in this case full details can be entered in the Index; further, if one has to depend entirely upon the reviews, any errors that creep into them are perpetuated.

(Signed) LESLIE B. C. TROTTER.

Ledbury,

March 31st, 1936.

**OBITUARY.**

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IDA M. ROPER, F.L.S. (1865-1935).

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For many years the annual meetings of our Society have been enlivened by the presence of Miss Roper, and even for the Killarney meeting her attendance was expected as she had engaged rooms for it but this was not to be. Her health had been failing for some time and she passed away at Bristol on June 8, 1935, in her 70th year. Bristol was her native city and the scene of most of her botanical labours. Her interest in the British flora was shown in her attempts to instil a love for wild flowers into her fellow citizens and for many years she was responsible for a table at the Bristol Museum where the local flowering plants were appropriately labelled and exhibited. Her interest in bryology was more spasmodic and incidental, she never attained an interest in these at all comparable with that shown for the flowering plants and even on the bryological excursions her attention was mostly occupied with flowering plants.

Her help in the production of J. W. White's Flora of Bristol was considerable, and brought her into helpful contact with many other botanists and with many botanical societies. She was an indefatigable collector, very orderly in her methods of mounting and arranging her specimens and Leeds University has benefited considerably from this systematic work as her herbarium of about 10,000 plants was given to it shortly before her death. She will be missed in many societies where her presence had a stimulating and rousing effect.

W. W.