

Moss Exchange Club,

SECTION II.

REPORT

FOR THE YEAR 1918.

DISTRIBUTER :

Mr. F. RILSTONE, Polperro, S.O., Cornwall.

SECRETARY :

Mr. D. A. JONES, M.Sc, F.L.S., Rock House,
Harlech, N. Wales.

TREASURER :

Mr. J. B. DUNCAN, Bewdley, Worcestershire.

BEWDLEY :

W. E. TOLLEY, PRINTER, 29, LOAD STREET.

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REFEREES:

Sphagnum Mr. W. R. SHERRIN.

Harpidium Mr. J. A. WHELDON, F.L.S.,
60 Hornby Road, Walton, Liverpool.

Pleurocarpi (except Harpidium) Mr. G. B. SAVERY.

Hepatics, and remaining genera of Mosses Mr. D. A. JONES.

LIST OF MEMBERS, 1918.

| | Mosses | Hepatics | Total. |
|--|--------|----------|--------|
| Mr. W. Bellerby, 8 Burton Lane, York | 140 | ... | 140 |
| Mr. H. Bendorf, 4 Sedgley Avenue, Prestwich, Manchester | ... | ... | ... |
| Mr. J. Blundell, 29 Aldridge Rd. Villas, London W. 11 | 34 | ... | 34 |
| Rev. H. Boyden, M.A., 46 St. Leonard's Road, Exeter | ... | ... | ... |
| Mr. H. C. Broome, Netherthorpe, Failsworth, Manchester | ... | ... | ... |
| Miss H. I. T. Bruce, 3 Cromwell Terrace, Scarborough | ... | ... | ... |
| Mr. S. Chipperfield, Cromwell House, Ottery St. Mary, Devon | ... | ... | ... |
| Miss C. M. Cooper, California Lane, Bushey, Herts. | 2 | ... | 2 |
| Mr. R. H. Corstorphine, B.Sc., Hillside House, Arbroath, N.B. | ... | ... | ... |
| Mrs. M. Corstorphine, Hillside House, Arbroath, N.B. | ... | ... | ... |
| Dr. H. Downes, F.L.S., Ditton Lea, Ilminster, Somerset | ... | 10 | 10 |
| Mr. J. B. Duncan, Bewdley, Worcestershire | 60 | 23 | 83 |
| Miss E. J. Fry, University College, Aberystwith | ... | ... | ... |
| Mr. J. Glover, Sea View, Kircubbin, Co. Down | 113 | 17 | 130 |
| Mr. G. H. Goode, 86 Adams Avenue, Northampton | ... | ... | ... |
| Mr. J. Groves, F.L.S., Trevarthian, Yarmouth, Isle of Wight | ... | ... | ... |
| Mr. G. T. Harris, Kelso, Knowle Park, Sidmouth | ... | ... | ... |
| Mr. J. W. Hartley, Mill Head House, Carnforth | ... | ... | ... |
| Rev. H. H. Harvey, Clawton, Holsworthy, Devon | 6 | ... | 6 |
| Mr. A. R. Horwood, The Museum, Leicester | ... | ... | ... |
| Miss E. M. Hough, Codsall Wood, near Wolverhampton | ... | ... | ... |
| Mr. J. D. Houston, 82 Hill Street, Lurgan, Co. Armagh | 58 | 14 | 72 |
| Rev. R. Jackett, F.L.S., St. Ishmael's Vicarage, Milford Haven | 288 | 14 | 302 |
| Mr. D. A. Jones, M.Sc., F.L.S., Rock House, Harlech, N. Wales | 224 | 154 | 378 |
| Lieut. C. V. B. Marquand, The Willows, Totnes, Devon | ... | ... | ... |
| Rev. W. R. Megaw, B.A., Trinity Manse, Ahoghill, Belfast | ... | ... | ... |
| Mr. J. Mennell, 27 Neville Street, York | 10 | ... | 10 |
| Mr. G. W. Moses, 19 Victoria Street, Bishop Auckland | ... | ... | ... |
| Mr. J. H. Payne, Newhill, West Melton, Rotherham | ... | ... | ... |
| Rev. P. G. M. Rhodes, M.A., 33 Duchess Rd., Edgbaston, Birmingham | 130 | 13 | 143 |
| Mr. F. Rilstone, Schoolhouse, Polperro, Cornwall | 80 | ... | 80 |
| Mr. G. B. Savery, Silvertown, Exeter | 73 | ... | 73 |
| Mr. W. R. Sherrin, 57 Glenwood Avenue, Westcliff-on-Sea | 67 | ... | 67 |
| Mr. R. W. Smitham, Fowey, Cornwall | 36 | 29 | 65 |
| Mr. H. Stansfield, 20 Park Grove, York | 42 | ... | 42 |
| Mr. A. Sutton, 9 Brookfield Park, London N.W. 5 | 24 | ... | 24 |
| Mr. W. N. Tetley, Portora, Enniskillen | 56 | 11 | 67 |
| Mr. W. G. Town, Frith's Terrace, Bacup Rd-, Todmorden | ... | ... | ... |
| Mr. W. G. Travis, 9 Barton Road, Liverpool | 43 | 49 | 92 |
| Prof. Lloyd Williams, D.Sc., University College, Aberystwith | ... | ... | ... |
| Mr. J. C. Wilson, F.L.S., 1500 Ashton Old Road, Manchester | ... | ... | ... |
| Miss A. Wyndham, 16 Hartley Road, Exmouth | ... | ... | ... |
| | 1486 | 334 | 1820 |

REPORT OF SECRETARY (1918).

Six new members have joined during the year. We regret to have to announce the resignation of Dr. Stephenson and the Rev. J. H. Ward. The total number on roll is 42.

The number of Hepatics contributed, as mentioned by Mr. Rilstone, was smaller than usual and, with few exceptions consisted of only common species. We appeal to members to pay greater attention to this interesting group next year.

The thanks of the Club is due to Mr. Rilstone for the excellent work he has done as Distributer. In addition to his ordinary duties he has also made up some hundreds of packets from extra material sent in.

It is very desirable that all subscriptions should be prepaid to the Treasurer early in January of each year.

D. A. JONES,

Hon. Secretary.

Harlech,

May, 1919.

REPORT OF DISTRIBUTER (1918).

The distribution this year took place in April when 40 parcels were sent out. Fewer members contributed than last year but gifts of additional material made it possible to send a parcel to every member. It is to be hoped that with the return of peace a larger proportion of the members will be able to contribute plants for distribution.

The thanks of the Club are due to Mr. Jones for an unusually large number of specimens, and to Mr. Duncan and Mr. Rhodes who both sent extra material. The Club is also greatly indebted to Mr. H. N. Dixon, Mr. W. Ingham, and Mr. W. E. Nicholson for gifts of valuable material which made up into a large number of packets.

Sphagna again figured largely in the plants contributed by members and some interesting plants were sent in. Hepatics were fewer than usual, the bulk of those received being contributed by the Secretary.

The Club is again indebted to the Referees. Mr. Sherrin has dealt with the Sphagna, Mr. Wheldon with Harpidia, Mr. Savery with Pleurocarpous Mosses and Mr. Jones with Hepatics and the Acrocarpous Mosses.

F. RILSTONE,

Distributor.

Polperro,

May, 1919.

BALANCE SHEET FOR THE YEAR 1918.

| Receipts. | | £ | s. | d. | Expenses. | | £ | s. | d. |
|-------------------------------------|--|----------------|-----------|-----------|--------------------------------|--|----------------|-----------|-----------|
| Balance from last year's Account .. | | 1 | 1 | 0 | Printing Report (1917) | | 2 | 4 | 3 |
| 31 Subscriptions 1918 | | 3 | 17 | 6 | Secretary's Expenses | | | 7 | 6 |
| Arrears paid | | 1 | 17 | 6 | Distributer's | | 1 | 1 | 3 |
| | | | | | Treasurer's | | | 5 | 9½ |
| | | | | | Balance in hand | | 2 | 17 | 2½ |
| | | | | | | | | | |
| | | £6 16 0 | | | | | £6 16 0 | | |
| | | £6 16 0 | | | | | £6 16 0 | | |

May, 1919.

J. B. DUNCAN,

Hon. Treasurer.

MOSSES.

Sphagnum fimbriatum Wils. var. *laxifolium* W. near Aintree (59), Dec. 1918, W.T. "An interesting form with very large stem-leaves (1.4 x 0.9 at base of leaf); otherwise this slender plant with remote branching agrees fairly well with var. *laxifolium*." W.R.S. Arncliffe Wood; Eskdale (62), Aug. 1916, P.G.M.R. det. W. Ingham and J. A. Wheldon. "Mr. Sherrin prefers to call it var. *validus* Card. f. *spectabile*, W. subf. *anocladum*, Est et Fax." Mr. Sherrin's note runs as follows:—"In the well-formed plants the branch leaves measure as much as 1.95, the stem leaves 1.3 by 0.8 at the base. I certainly think this is a form of the var. *validus* approaching the var. *robustum* rather than the var. *laxifolium* which is a much smaller plant with distant branching," while Mr. Wheldon speaks of the plant as "one of those intermediate plants which one can hardly place under any of Warnstorff's varieties without straining some character. In placing it under var. *laxifolium* I was guided by the size of the leaves chiefly and the slender branches, the slenderness being due simply to lax arrangement of the leaves on the branches. Your plant (some of it) is slightly more robust than the specimens I had but the leaves still remain too small for *validus*."

S. Warnstorffii Russ. var. *purpurascens* Russ. Rhinog Fawr, Harlech (48), July 1917, D.A.J.

S. rubellum Wils. var. *rubescens* W. Throwleigh (3), June 1918, W.R.S.; var. *violascens* W., Widcombe Moor (5), W. Watson and P.G.M.R.

Sphagnum——? Boggy field near St. Pinnock (2), Jan. 1919, F.R. "*S. rubellum* Wils. var. *purpurascens* Russ." W.R.S.

S. acutifolium Ehrh. var. *quinquefarium* Lindb., Wastdale, Cumberland (70), Aug. 1917, W.N.T. "*S. cymbifolium* var. *pallescens*." W.R.S.

Sphagnum——? Dalar (46), July 1917, R.J. "*S. plumulosum* Roll. var. *viride* W. f. *griseum* W."; also Dalar (46). July 1917, R.J. "*S. plumulosum* Roll. var. *versicolor* W."

S. plumulosum Roll. v. *lilacinum* Spruce., (a) Silverwell Moor, (b o c) Ventongimps Moor, Dec. 1918, F.R. "Must probably go under *coerulescens* or *lilacinum* and preferably perhaps to *lilacinum*." J.A.W.; var. *purpureum* W. f. *robustum* W. Woodbury Common (3), March 1918, W.R.S.; Ventongimps Moor (1), Dec. 1918, F.R. (det. W.R.S.); var. *versicolor* W., Fathon Mtn. (I. 37), Oct. 1918, J.D.H. "Is var. *purpureum*." W.R.S.; var. *versicolor* W. c. fr., Silverwell Moor (1), July 1914, F.R. "This beautiful plant approaches somewhat the var. *flavescens* but the decided pinkish tinge in the lower part of the plant agrees better with var. *versicolor*. In Mr Horrell's Eur. Sphagnaceae it is known as var. *flavo-rubellum*, a form with yellow predominating." W.R.S.; f. *tenellum* W., Widcomb-by-Somerset Jan. 1918, leg. P.G.M.R. comm. J.B.; Ventongimps Moor (1), Dec. 1918, F.R. det. W.R.S.; *S. plumulosum*, Derryloste (I. 37), J.D.H. "var. *versicolor*." W.R.S.; var. *ochraceum* w. f. *Schillerianum* W. Little Haldon (3), Aug. 1918, W.R.S.

S. subnitens var. ? Heathfield Common (15), Nov. 1906, leg. Ll. J. Cocks. com. P.G.M.R. "*S. plumulosum* var. *versicolor* f. *tenellum*." W.R.S.

S. compactum D.C. var. *imbricatum* W. f. *purpurascens* W., mountain bog, Rhinog Fawr (48), Aug. 1917, D.A.J. and P.G.M.R., det. J.A.W.

S. squarrosum Pers. var. *spectabile* Russ. f. *patulum* W., wet cliff, Arncliffe Wood, Eskdale (62), Aug. 1916, P.G.M.R.; woods, Buttercrambe (62), June 1917, W.B.; var. *subsquarrosum* Russ., The Carr near Aintree (59), Dec. 1918, leg. J.A.W. and W.G.T. "Yes, I believe the f. *densum*." W.R.S.

S. amblyphyllum Russ. var. *mesophyllum* W. f. *molle* Russ., shady bog, Ceunant Llenyrch (48), Sept. 1917, D.A.J. and P.G.M.R. com. P.G.M.R.

Sphagnum——? Dalar (46), July 1917, R.J. "*S. recurvum* var. *robustum* Breidl. f. *strictifolium* W." W.R.S.

S. recurvum P. de Beauv. var. *majus* Angstr. f. *silvaticum* Russ., Hartlebury Common (37), Sept. 1914, P.G.M.R.

S. cuspidatum Ehrh. var. *submersum* Schimp., Pool, Camlough Mtn. (I. 37), Oct. 1918, J.D.H. "f. *crispatum*" W.R.S.; var. *plumosum* Nees & Hornsch., Dartry Hills, Co. Leitrim (I. 29), April, 1918, W.N.T. "var. *plumosum* Schimp. f. *remotum* W." W.R.S.

S. tenellum Lindb., Camlough Mtn. (I. 37), Oct. 1917, J.D.H. "*S. molluscum* Bruch. var. *vulgatum* w. f. *compactum* W." W.R.S.

Sphagnum—(No. 16)? Boggy field near St. Pinnock (2), Jan. 1919, F.R. "*S. inundatum* R. & W. var. *ovalifolium* W. f. *laxifolium* W." W.R.S.

S. aquatile W. var. *subfuscum* W. Throwleigh (3), June 1918, W.R.S.

S. crassycladum W. var. *magnifolium* W. f. *rufescens* W. subf. *turgescens* W., Mountain stream, Moelwyn Bach, Sept. 1917, P.G.M.R.; var. *diversifolium* W. f. *inundatum* W., ditch, Long Moor, Sutton Park (38), July 1917, P.G.M.R. "Less lax than in my examples." J.A.W.; var. *intermedium* W. f. *ovalifolium* W., mountain stream, Moelwyn Bach, Sept. 1917, P.G.M.R. "Rather robust." J.A.W.

S. Camusii W. Deep ditch, Silverwell Moor (1), Dec. 1918, F.R. det. W.R.S. and J.A.W. "It may be that we have here an endemic variety of *S. Camusii*." J.A.W.

S. rufescens, Nees & Hornsch, var. *magnifolium* W. f. *bicolor* W., Throwleigh (3), June 1918, W.R.S.; f. *albescens* W., Shady ravine, Ceunant Llenyrch (48), Aug. 1917, P.G.M.R.

S. turgidulum W. var. *sordidofuscoatrum* W., peaty ditches, Gerddi Bluog, Harlech (48), Aug. 1917, leg. Duncan & Rhodes, com, P.G.M.R. New to Britain.

S. hakkodense W. & Cardot, Ventongimps Moor (1), Dec. 1918, F.R. det. W.R.S. & J.A.W. "A form analogous to *S. papillosum* f. *confertum* or f. *compactum*." J.A.W.

S. papillosum Lindb. var. *normale* W. f. *brachycladum* W. subf. *pallescens* Wheldon, Hartlebury Common, April 1914, J.B.D. and P.G.M.R., com. P.G.M.R.

S. cymbifolium Ehrh. var. *pallescens* W., Rocks in mountain wood, Bwlch Tyddiad, D.A.J. and P.G.M.R., Aug. 1917, = var. *glauco-pallescens* W.

Andreaea alpina, Smith, Mourne Mts. (I. 38), May 1918, J.G.

Andreaea crassinervia Bruch., rocks above Glaslyn Bridge, Portmadoc (49), Sept. 1915, D.A.J.

Oligotrichum hercynicum Lam. Glyder Fawr, above Twll Du, N. Wales, July 1888. H. N. Dixon.

Polytrichum gracile Dicks., Skipwith Common (61), W. Ingham.

P. commune L., Marsh, Fowey Valley (2), at 600 ft., May 1918, R.W.S.

Diphyscium foliosum Mohr., banks near Slaughter Bridge (2), Aug. 1886, H. N. Dixon.

Pleuroidium alternifolium Rabenh., fallow field above Talsarnau (48), Nov. 1917, D.A.J.

Ditrichum homomallum Hampe., Harleston Firs, Northants, Sept. 1888, H. N. Dixon.

Swartzia montana Lindb., on rocks, banks of Ribble, Austwick (64), April 1918, W.B.

S. inclinata Ehrh., Freshfield (59), July 1917, W.G.T.

Seligeria pusilla B. & S. Pycombe near Brighton (13), April 1918, A.S.

S. acutifolia Lindb. var. *longiseta* Lindb., on moist lime-incrusted rock at 2500 ft., Scex que Pelian, Montreux, Switzerland, May 1915, leg. F. Savery, com. G.B.S.

S. paucifolia, Carruth., moist rock faces, at 2700 ft. Chamby sur Montreux, Switzerland, May 1915, leg. F. Savery, com. G.B.S.

S. calcarea B. & S. Pycombe near Brighton (13), April 1918, A.S.

Ceratodon conicus Lindb., Northamptonshire form — leaves typical, fruits intermediate — oolite mud cap of wall, Weston Favell (32), April 1918, leg. P.G.M.R. com. J.B. "The leaves are typical *C. conicus* but the capsule resembles that of *C. purpureus* with a peristome approaching the former." D.A.J.

Dicranella arispa Schp., Ben More, Perthshire, July 1917, leg. Binstead and Dixon, com. H. N. Dixon.

Dicranoweisia cirrata Lindb., walls, Penrhyndeudraeth (48), Jan. 1917, D.A.J.

D. crispula Lindb., rocks in wood, St. Luc, Val d'Anniviers, Valais, July 1914, P.G.M.R.

Campylopus subulatus Schp., River Wye (45), 1916, R.J.

C. flexuosus Brid., hill near Tor Head, May 1911, J.G.; var. *uliginosus* Ren. c.fr. Boggy field near St. Pinnock (2), Jan. 1919, F.R. "This may belong to the var. *uliginosus* Ren. The nerve is rather narrower than in type, while the habitat is correct." D.A.J.

C. setifolius Wils. var. *intermedius*, mihi., shores of Llyn Eiddew Mawr, Harlech (48), June 1917, D.A.J.

- C. atrovirens* De Not., Dalar (46), July 1917, R.J.
- C. introflexus* Brid., rocks, Barmouth (48), Jan. 1919, D.A.J.
- C. brevipilus* B. & S., near Llyn Eiddew Mawr, Harlech (48), June 1917, D.A.J., Skipwith Common (61), May 1912, W. Ingham.
- Dicranodontium longirostre*, B. & S., Glenveagh Woods (I. 35), July 1910, J.G.
- Dicranum spurium* Hedw., Graffham Common (13), March 1910, leg. W. E. Nicholson, com. W.G.T.
- D. scoparium* Hedw. var. *orthophyllum* Brid., Ainsdale (59), Feb. 1910, W.G.T. var. *spadiceum* Boul., rocks in alpine pastures cir. 7000 ft., Visivi, St. Luc, Val d'Anniviers, Valais, July 1912, leg. P.G.M.R., com. J.B.
- D. montanum* Hedw. (tall form), tree trunk, Bremgarten near Berne, Switzerland. Sept. 1915, leg. F. Savery, com. G.B.S. "This differs considerably from normal *D. montanum* both in colour and size." D.A.J.
- Leucobryum glaucum* Schp., c.fr., Ceunant Llenrych (48), Jan. 1914, D.A.J.; Kircubbin (I. 38), July 1908, J.G.
- Fissidens exilis* Hedw., damp earth in lane, Lansallos (2), Dec. 1918, F.R.
- F. crassipes* Wils., dried watercourse on stones, Canal, Grafton Regis, Northants, July 1889, H. N. Dixon.
- F. osmundioides* Hedw., R. Mawddach, Tyn-y-groes, Dolgelly, July 1888, H. N. Dixon; Helwith Moss, Austwick (64), April 1918, W.B.; Carlingford Mts. (I. 31), July 1912, J.G.
- F. polyphyllus* Wils., stream near Aberglaslyn Bridge (49), Sept. 1916, D.A.J.
- F. adiantoides* Hedw., Craig Chailleach, Perthshire, July 1887, H. N. Dixon.
- F. decipiens* De Not., New Mill, Trevaylor, Penzance, W. Curnow and H. N. Dixon, Aug. 1886.
- Grimmia apocarpa* Hedw. var. *rivularis* W. & M., rocks, Ribble banks, Austwick (62), April 1918, W.B.; Stream near Duntulm, Skye, July 1893, H. N. Dixon.
- G. orbicularis* Bruch., Walls, Sheepscombe (33), Dec. 1913, D.A.J.

G. trichophylla Grev., on rocks, Deerpark, Kircubbin, April 1918, J.G.

G. Stirtoni Schp., rocks, Barmouth (48), Jan. 1919, D.A.J.

G. subsquarrosa Wils., rocks, Tremadoc, Aberglaslyn Road (49), Dec. 1914, D.A.J.

G. decipiens Lindb., Greywethers, Marlborough Downs, Wilts., July 1907, H. N. Dixon; rocks, Hir Ynys, Llanfrothen, (48), Aug. 1915, D.A.J.

Rhacomitrium fasciculare Brid., Glen near Murlough Bay (I. 39), July 1915, J.G.

R. heterostichum Brid., rock at 750 ft., St. Cleer (2), May 1918, R.W.S.; var. *gracilescens* Brid., stone walls near Hafod-y-Llyn, Harlech (48), Sept. 1911. leg. D.A.J. and P.G.M.R., com. D.A.J.

R. ramulosum Lindb., Ben Douran (98), Aug. 1913, D.A.J.

Coscinodon cribrosus Spruce, walls, Barmouth Estuary (48), Jan. 1919, c. fr. on walls, Llan, Festiniog (48), Feb. 1919, D.A.J.

Ptychomitrium polyphyllum Förn., Gweedore, Donegal, July 1890, H. N. Dixon, Rock, St. Cleer (2), May 1918, R.W.S.; Glen, near Murlough Bay (I. 39), July 1915, J.G.

Hedwigia ciliata Ehrh. var. *striata* Wils., Uwchartro, Harlech (48), Jan. 1915, D.A.J.

H. imberbis Spruce, Far Easedale, Grasmere, July 1891, H. N. Dixon.

Pottia——? Murloes (45), Nov. 1918, R.J. "The packets sent contain *Weisia viridula*, *Pottia intermedia*, *P. Wilsoni*, and *P. crinita*." D.A.J.

Tortula intermedia Berk. Falmer, near Brighton (14), on flint wall, April 1918, A.S.

T. princeps De Fot., c. fr., Beddgelert (49), May 1916, D.A.J.

Barbula——? c. fr. (leaves serrulate at apex) (a) rocks by König See, Bavaria, June 1911, leg. F. Savery, com. G.B.S., (b) Schaffburg, Salzburg, Austria, July 1912, leg. F. Savery, com. G.B.S. "These specimens were submitted to Mr. W. E. Nicholson who named them *B. paludosa*, Schwaegr. The large, peculiar, multicellular gemmae borne on long stalks from the main stem are characteristic of the species." D.A.J.

B. lurida Lindb., limestone rocks, Bogliaco, Italy, March 1912, leg. F. Savery, com. G.B.S.

B. tophacea Mitt., c. fr., Naburn (61), March 1900, W. Ingham.

B. recurvifolia Schp. Co. Leitrim (I. 29), April 1918, W.N.T. "I am inclined to think that this tall fine plant belongs to *B. fallax* Hedw. The leaves have longer points, less recurved margins, and the papillosity is not so marked as in *B. recurvifolia*. Forms of the former plant have recurved leaves." D.A.J.

B. cylindrica Schp., wall, Kircubbin (I. 38), March 1913, J.G.

B. sinuosa Braithw., Fálmer, near Brighton (14), April 1918, A.S.

B. convoluta Hedw. var. *Sardoa* B. & S., Exeter (3), Nov. 1918, W.R.S.

Weisia microstoma C.M., Harlech Sandhills (48), April 1917, D.A.J.; Kinlough Mtn. (I. 29), April 1918, W.N.T. "This is not a *Weisia*. The fruit is that of a *Trichostomum*. The leaves are long and acute and the stem reddish below. It is the var. *cophocarpum* of *T. mutabile* Bruch." D.A.J.; var. *elata* B. & S., side of railway, Duffws Railway Station, Festiniog (48), Feb. 1919, D.A.J.

W. rupestris C.M., Gorge de Chanderson, Montreux, Switzerland, May 1915, leg. F. Savery, com. G.B.S. "Yes, a form of *W. rupestris* with less crenulate leaves, and more pellucid cells." D.A.J.; walls, Glyn, Talsarnau (48), Feb. 1917, D.A.J.

Trichostomum crispulum Bruch., Malham Moor (64), June 1918, W.G.T.; Whitepark Bay (I. 39), July 1915, J.G. "Is *Barbula unguiculata*. Note the spirally twisted leaves with the marked glossy nerve and the absence of the cucullate point characteristic of *T. crispulum*." D.A.J.; var. *elatum* Schp., limestone rocks, Bogliaco, Italy, March 1912, leg. F. Savery, com. G.B.S.

T. mutabile Bruch. var. *littorale* Dixon, wall, Clowance (1), Dec. 1915, R.W.S.; var. *cophocarpum* Schp., limestone rocks, Austwick (64), April 1918, W.B.

T. tenuirostre Lindb., Sallagh Braes (I. 39), August 1910, J.G. "This is *Zygodon Mougeotii* B. & S. I find that this plant is often confused with other species. It is quite distinct in its narrow leaves tapering to an acute point, the margin narrowly recurved below and the cells smooth and pellucid." D.A.J.

T. tortuosum Dixon, Dalar (46), 1917, R.J.; Tallymore Park (I. 38), July 1916, J.G.

T. fragile Dixon (or *T. tortuosum* var. *fragilifolium* Dixon?), sandy ground, Mullaghmore Wood (I. 28), April 1915. W.N.T. "The leaves are too straight and rigid for *T. fragile* and less fragile than either that or the var. *fragilifolium* of *T. tortuosum*. It is typical *T. tortuosum*." D.A.J.

Encalypta vulgaris Hedw. Donegal, W.N.T. "Is *Trichostomum flavovirens*." D.A.J.

E. streptocarpa Hedw., Slebagh (45), July 1915, R.J.

Anoetangium compactum Schwaeg., Cwm Bychan (48), Sept. 1914, W.G.T.

Ulota Bruchii Hornsch., Mulgrave Wood, Sandsend (62), July 1916, C.M.C.; oak, St. Cleer (2), May 1918, R.W.S.

U. calvescens Schp., L. Summy near Narin, (I. 35), Sept. 1918, W.N.T. "One packet is correctly named while the other contains *U. Bruchii* Hornsch." D.A.J.

Orthotrichum rupestre Schleich., on stones, Benevenagh (I. 40), April 1914, J.D.H.

O. cupulatum Hoffm., on boulders by Bann below Coleraine (I. 40), Jan. 1913, J.D.H. "Is var. *nudum* Braithw." D.A.J.

O. rivulare Turn., tree, Erwood Bridge, Radnor, July 1903, H. N. Dixon.

O. Schimperii Hamm., on bark, Sierre, Valais, Switzerland, May 1915, leg. F. Savery, com. G.B.S. "There is not much difference between this species and *O. pumilum* Swartz except in the smaller capsule. It is correctly named." D.A.J.

Amblyodon dealbatus P. Beauv., Formby (69), July 1917, W.G.T.; Warren, Harlech (48), June 1917, D.A.J.

Meesia trichoides Spruce., Ben Lawers, July 1903, H. N. Dixon; sandhills, Freshfield (59), July 1917, W.G.T.

Paludella squarrosa Brid., Grand Tourbiere, Oka, P.C., Canada, Sept. 1911, leg. H. Dupont, com. J.B.

Conostomum boreale Swartz., Ben Ledi, July 1897, H. N. Dixon.

Bartramia Ederi Swartz., Lodore Falls, Cumberland, August 1895, H. N. Dixon; damp shady wall, Chamby Vaud, Switzerland, May 1915, leg. F. Savery, com. G.B.S.

B. ithyphulla Brid., Eggishorn, Valais, Switzerland, Aug. 1916, leg. D. M. Eiger, com. G.R.S.

B. Halleriana Hedw., Twll Du, Llanberis, N. Wales, July 1888, H. N. Dixon.

Philonotis seriata Mitt., Eggishorn, Valais, Switzerland, August 1916, leg. M. Eiger, com. G.B.S.

P. calcarea Schp., Roddam Glen, Northumberland, July 1895, H. N. Dixon; calcareous rocks, Swiss Jura, July 1913, leg. P.G.M.R., com. J.B.; Carntogher (I. 40), June 1917, J.D.H.; var. *laxa* Dismier, N. and S. Wilts (7 & 8), April 1912, leg. C. P. Hurst, com. W. Ingham.

Breutelina arcuata Schp., near Crianlarich, Perthshire, July 1897, leg. Binstead and Dixon; N. W. Donegal (I. 35), July 1910, J.G.

Orthodontium gracile Schwaeg., boulders, Nant-y-Ffrith (51), November 1918, D.A.J.

Webera nutans Hedw., Moors, Kircubbin (I. 38), May 1913, J.G. "Evidently this plant with its red radicular gemmae is *Bryum erythrocarpum* Schwaeg." D.A.J.; var. *longiseta* B. & S., Kircubbin Bay (I. 38), July 1910, J.G.

W. annotina Schwaeg. var. *bulbifera* Correns, by Raven's Falls, Ceunant Llenrych, Maentwrog Valley (48), June 1917, D.A.J.

Bryum Warneum Bland. Sandhills, Freshfield, Lancs., October 1908, J. A. Wheldon and H. N. Dixon.

B. calophyllum R. Br. Sandhills, Southport, May 1865, leg. J. Whitehead, com. H. N. Dixon.

B. lacustre Brid., Southport, Lancs., Oct. 1866, leg. J. Whitehead, com. H. N. Dixon.

Bryum——? on sand, side of ditch, Portrush (I. 39), Oct. 1917, J.D.H. "This moss is not unlike *B. pallens* but the inflorescence is autoicous and the peristome has the characters of the *Cladodium* group. The mouth of the capsule is small and oblique. It is *B. uliginosum*, B. & S." D.A.J.

B. pallens Sw., Easton, Northants, April 1886, H. N. Dixon; forma, Cader Idris, near Dolgelly (48), Sept. 1917, D.A.J.

B. pseudo-triquetrum Schwaeg., Carlingford Mts. (I. 31), May 1912, J.G.; Ben More, Perthshire, July 1897, H. N. Dixon.

B. erythrocarpum Schwaeg., Cwm Bychan, Harlech (48), June 1916, D.A.J.

B. rubens Mitt., Salcey, Northants, July 1893, H. N. Dixon.

B. alpinum Huds. var. *viride* Husn., on Silurian rocks at 1000 ft., Austwick (64), April 1918, W.B.

Mnium cuspidatum Hedw., Harleston Quarries, Northants, May 1898, H. N. Dixon.

M. serratum, Schrad., Llanberis, July 1888, H. N. Dixon; Banks of Ribble (64), March 1918, W.B.

M. stellare Reich., bank of stream, Dodford, Northants, Dec. 1887, H. N. Dixon; Nant-y-Ffrith near Wrexham (50), Nov. 1918, D.A.J.; grassy bank, Hovingham (62), March 1918, W.B.

M. cinclidoides Hubn., Pool, Craig Chailleach, Perthshire, July 1898, leg. Binstedd & Dixon; shores of Tallylyn Lake (48), June 1917, D.A.J.

M. subglobosum B. & S., bog at 2000 ft., Ingleborough (64), April 1918, W.B. "*M. punctatum*. The border is thickened and more distinct." D.A.J.

Cinclidium stygium Swartz, bog, summit of Craig Chailleach, Perthshire, July 1897, H. N. Dixon.

Fontinalis antipyretica L., river, St. Cleer (2), May 1918, R.W.S. "This plant is very slender and has narrow unkeeled leaves; it is *F. squamosa* L." G.B.S.

Neckera crispa Hedw. var. *falcata* Boul., limestone rocks, Crummock Dale, Austwick (64), April 1918, W.B.

Leskea polycarpa Ehrh., trees, Potmore (I. 39), Aug. 1917, J.G.

Anomodon viticulosus Hook. and Tayl. c. fr., Chudleigh, S. Devon, Nov. 1918, W.R.S.

Leptodon Smithii Mohr., Ilfracombe (4), Nov. 1917, leg. C. P. Hurst, comm. W. Ingham.

Pseudoleskea catenulata B. & S., on Silurian rocks at 1600 ft., Austwick (64), April 1918, W.B.

Thuidium abietinum B. & S., sandhills, Kiltorris (I. 35), Sept. 1918, W.N.T.

T. Philiberti Limpr., Morfa, Harlech (48), Jan. 1919, D.A.J.; var. *pseudo-tamarisci* Limpr., calcareous stones in open wood, Sefurinthal, Bernese Oberland, Switzerland, July 1913, leg. P.G.M.R., comm. J.B.

Cylindrothecium concinnum Schp., on limestone rocks, Austwick (64), April 1918, W.B. "This is *Antitrichia curtispindula*, Brid. Note the strong nerve and long pointed leaves." D.A.J.; summit of King's Seat, Killin (88), Aug. 1913, D.A.J.; sandhills, Marin (I. 38), Aug. 1918, W.N.T.; Chamby, Montreux, Switzerland, May 1915, leg. F. Savery, comm. G.B.S.; Burrington Coombe, Mendips (6), Aug. 1915, leg. P.G.M.R., comm. J.B.

Orthothecium rufescens B. & S., Truskmore, (I. 35), April 1918, W.N.T.

Camptothecium lutescens B. & S., Perranporth (1), 1916, H.H.H.

C. nitens Schp., marshy field, Chamby, Vaud, Switzerland, May 1915, leg. F. Savery, comm. G.B.S.

Brachythecium salebrosum B. & S., Inishkeel, Portnoo (I. 35), Aug. 1918, W.N.T.. "The plants are rather robust and should I think go under var. *palustre* Schp."

B. rivulare B. & S., var. *cataractarum* Sauter (fide Amann), on dripping rocks, Mallyan Spout (62), Jan. 1919, W.B. "This is the var. *cataractarum* Sauter, and from a bryological point of view is a hydromorphous form of *B. rivulare* parallel to the forms analogous to *Rhynchostegium rusciforme* frequent in all our mountain torrents." Dr. Jules Amann *in lit.*

Brachythecium velutinum B. & S., Nant-y-Ffrith, near Wrexham (50), Nov. 1918, D.A.J.; Cramb Beck (62), Feb. 1918, H.S.

B. illecebrum De Not., Bovey Tracey (3), April 1915, G.B.S.; Monk's Cove (45), 1917, R.J.

Cirriphyllum Vaucheri (B. & S.) Loisk. (= *Eurhynchium Tommasinii*), calcareous rocks, Sefurinthal, Bernese Oberland, Switzerland, June 1913, leg. P.G.M.R., comm. J.B.

Eurhynchium piliferum B. & S., on limestone rocks, Trow Ghyll, Austwick (64), April 1918, W.B. "Mostly *Brachythecium rivulare*. The packets only contained a few stems of *E. piliferum*." G.B.S.

E. crassinervium B. & S., Hasguard (45), 1917, R.J. "Five packets are *Brachythecium illecebrum*." G.B.S.

E. praelongum Hobk. var. *Stokesii* Brid., Ceunant Llenrych (48), April 1910, W.G.T.

E. pumilum Schp., Monk's Cove (45), 1917, R.J.

E. circinatum B. & S., Teignmouth (3), May 1918, W.R.S.

E. striatulum B. & S., Askeaton (I. 8), July 1908, leg. C. H. Waddell, comm. J.D.H.

Plagiothecium elegans Sull., hedgebank at 700 ft., St. Cleer (2), May 1918, R.W.S.; c. fr., Nantcol Ravine, Llanbedr (48), January 1917, D.A.J.

P. silesiacum B. & S., rocks near Montreux, Switzerland, May 1915, leg. F. Savery, comm. G.B.S.

P. denticulatum B. & S. var. *aptychus* Spruce, roots of trees, Berne, Switzerland, July 1915, leg. F. Savery, comm. G.B.S.

P. undulatum B. & S., Allyrodin (46), 1916, R.J.; Glen Murlough Bay (I. 39), July 1915, J.G.

Amblystegium serpens B. & S., hedge-bank, St. Cleer, at 750 ft., May 1918, R.W.S. "*Eurhynchium pumilum*." G.B.S.

A. filicinum De Not. var. *trichodes* Brid. Nant-y-Ffrith, near Wrexham (50), Nov. 1918, D.A.J.

Hypnum riparium L. var. *longifolium* Schp. Kircubbin (I. 38), Aug. 1917, J.G.

H. elodes Spruce, dried-up marsh, sandhills, Streedagh, (I. 28), April 1918, W.N.T. "This is *H. polygamum* Schp. Note the well-marked auricles and the weak nerve only reaching half-way. The plant is also much too robust for *H. elodes*." G.B.S.

H. Halleri Linn. f. Gorge de Chauderon, Montreux, Switzerland, May 1915, leg. F. Savery, comm. G.B.S.

A. aduncum Hedw. var. *polycarpon* Bland., Naburn (61), October 1915, W. Ingham; var. *intermedium* Schp., pool, Glastry, Kircubbin (I. 38), April 1916, J.G. "Yes." J.A.W.; var. *paternum* Sanio, marsh in sandhills, Streedagh (I. 28), April 1918, W.N.T. "Yes." J.A.W.; var. *Wheldoni*, Burnham Sandhills, Somerset, Oct. 1916, leg. C. P. Hurst, comm. W. E. Nicholson; var. *falcatum* Schp., side of railway, Pormadoc (49), June 1916, D.A.J.; Goonhavern Moor (1), Aug. 1918, F.R. "An interesting state of *H. aduncum* var. *falcatum* Schp. It has evidently been subjected to dessication

and then re-moistened inducing fresh growth. The new growths have quite a different appearance from the old ones, recalling the var. *gracilescens*." J.A.W.

H. Sendtneri Schp., Sandhills, Freshfield (59), March 1918, leg. Wheldon & Travis, comm. W.G.T. "Yes, forma *tenuis* Wheldon, distinguished by its slender, slightly-branched stems, and distant and narrow leaves." J.A.W.; Ballynary (I. 37), Aug. 1917, J.D.H. "These specimens have no decurrent auricles to the leaves and cannot therefore belong to *H. Sendtneri*. The purple colour and robust habit clearly point to *H. revolvens* Swartz." G.B.S.

H. lycopodioides Schwaeg., Skipwith Common (61), April 1906, W. Ingham.

H. fluitans L. gr. *falcatum* var. *ovalis* Ren., dried peat pools, Bultih (42), 1915, R.J. "Yes, except two packets which I think are very near var. *gracile* Boul." J.A.W.

H. exannulatum Gumb, dried-up place in marsh, St. Cleer (2), May 1918, R.W.S. "Yes, var. *pinnatum*." J.A.W.; var. *pinnatum* Boul. f. *acuta* Sanio, Kircubbin (I. 38), Sept. 1900, J.G. "Yes." J.A.W.

H. uncinatum Hedw., edge of Dartmoor, Bovey Tracey (3), April 1915, G.B.S.; amongst heather, Raughlin (I. 37), June 1916, J.D.H.

Hypnum—? Strata Florida (46), December 1918, R.J. "*H. vernicosum*." D.A.J.

H. revolvens Swartz, Edenbane, Tarvagh (I. 40), April 1912, J.D.H. "Yes." J.A.W.; bog, Stavingley (I. 39), July 1913, J.D.H. "Is *H. falcatum* Brid." J.A.W.; var. *Cossoni* f. *rufescens*, Dalar (46), R.J. "Yes." J.A.W.

H. intermedium Lindb., Strata Florida, Nov. 1918, R.J.

H. falcatum Brld. var. *virescens* Schp., sub-alpine stream at 1000 ft., Austwick (64), April 1918, W.B. "Yes, could be placed under Schimper's variety but is not as extreme as the var. *irrigatum* Zett., a plant which occurs in this district and to which some restrict the name "*virescens*." J.A.W.

H. cupressiforme L. var. *resupinatum* Schp. Monk's Cove (45), 1918, R.J. "This is a form approaching the var. *resupinatum*, most of the leaves being erect or turned upward; it is not however quite typical of that variety as on some stems the leaves are distinctly decurved." G.B.S.; var. *ericetorum* B. & S. c. fr., Woodbury Common (3), Nov. 1918, W.R.S.; Slebagh (45), 1915, R.J.; var. *elatum* B. & S., Kiltorris Sandhills (I. 35), Sept. 1918, W.N.T.

H. imponens Hedw., St. Johns Common, Crowborough, August 1918, W. E. Nicholson.

H. hamulosum B. & S., Quinag, Sutherlandshire, July 1899, leg. H.N.D., E.S.S. & W.E.N., comm. W. E. Nicholson.

H. callichroum Brid., Cwm Moch above Talsarnau (48), Nov. 1918, D.A.J.; Snowdon (49), Aug. 1912, W. Ingham.

H. molluscum Hedw. var. *robustum* Boul., Mourne Mts. (I. 38), June 1916, J.G.

H. eugyrium Schp., Strata Florida (46), July 1918, R.J. "In this plant the auricles are quite hyaline and show no trace of the orange-brown colouring of *H. eugyrium*. The nerve also frequently reaches half-way up the leaf which is not the case in that species. The packets really contain *H. ochraceum* Turn." G.B.S.

H. ochraceum Turn., Dalar (46), 1917, R.J.

H. scorpioides L., Marshy Ground, Naburn (61), Feb. 1918, J.M.

HEPATIC.

6. *Riccia Lescuriana* Aust., wet rocks above Singrig, Talsarnau (48), January 1917, D.A.J.

*15. *Ricciella fluitans* L., pond at Ashill, Ilminster (5), June 1918, H.D.; also, near Gresford (50), November 1918, D.A.J.,—Dr. Thomas's Station.

16. *Ricciocarpus natans* (L.) Corda, pond near Rossett (50), November 1918, D.A.J.,—Dr. Thomas's Station.

23. *Marchantia polymorpha* var. *alpestris* Nees., Cam Creag (88), August 1913, D.A.J.

31. *Metzgeria*——? Plantation Park, Kinbane, Co. Antrim (I. 38), J.G. "This is *Metz. furcata* var. *fruticulosa* (Dicks.) Lindb." D.A.J.

32. *M. conjugata* Lind., on trees, Plantation Park, Kinbane (I. 39), J.G. "The inflorescence is dioicous. It is *M. furcata* L. Dum." D.A.J.

34. *M. pubescens* (Schrank) Raddi, Nant-y-Ffrith, near Wrexham (50), November 1918, D.A.J.

38. *Moerckia Blyttii* (Moerck.) Brockm., Ben Douran (98), August 1913, D.A.J.

39. *Pellia epiphylla* (L.) Corda, Devol Glen, Port Glasgow (76), J.G. "This belongs to *P. Fabbroniana* var. *lorea* Nees." D.A.J.

49. *Fossombronina angulosa* (Dicks.) Raddi, rocks, Tremadoc (49), January 1919, D.A.J.

53. *Gymnomitrium corallioides* Nees, King's Seat, Killin (88), August 1913, D.A.J.

67. *Marsupella emarginata* (Ehrh.) Dum. Carlingford Mts. Louth (I. 31). J.G.; also, St. Cleer (2), May 1918, R.W.S. "The latter is *M. Funckii*." D.A.J.

69. *M. aquatica* Lind., Cwm Bychan, Harlech, September 1911, W.G.T. "This belongs to *M. Pearsoni* Schffn. The shining leaves, small sinus and the guttulate cells point to that species." D.A.J.

80. *Eucalyx hyalinus* (Lyell) Breidl., roadside Llanfrothen to Croesor (48), May 1915, D.A.J.

85. *Aplozia riparia* Dum. Whitewell (64), September 1917, W.G.T.; also, forma Achmore, Killin (88), August 1913, D.A.J.

94. *Gymnocolea inflata* (Huds.) Dum., Dalar (46), July 1917, Cowan (1), December 1918 R.W.S.

97. *Lophozia badensis* Schiffn., Ainsdale, (59), October 1918, W.G.T.

99. *L. bantriensis* (Hook.) Coldwell near Burnley (59), Sept. 1912, W.G.T.

103. *L. longidens* (Lindb.) Macoun, forma *condensata*, rocks by roadside, Hafod-y-Llyn, Harlech (41), December 1917, D.A.J.

108. *L. alpestris* (Schleich) Evans, forma, walls, Arthog (48), October 1915, D.A.J.

*111. *L. bicrenata* (Schmid.) Dum., rocks in wood, Leighton, near Welshpool (47), October 1918, D.A.J.

113. *L. excisa* Dum., sandhills, Freshfield (59), November 1918, W.G.T.

114. *L. quinquedentata* (Huds.) Cogn, Kinlough Mt., Leitrim (I. 29), April 1918, W.N.T.

129. *Sphenolobus politus* (Nees) Steph., King's Seat, Killin (88), August 1913, D.A.J.

134. *Plagiochila asplenoides* (L.) Dum., St. Cleer (2), May 1918, R.W.S.; var. *major* Nees, glen near Marleagh Bay, Co. Antrim, Sept. 1915, J.G.; also, Singrig, Talsarnau (48), March 1917, D.A.J.

137. *P. punctata* (Tayl.), Dunmore Head, Co. Donegal (I. 35), Sept. 1918, W.N.T.; Tynnygroes, Dolgelley (48), April 1914, D.A.J.; and Benevenagh (I. 40), April 1914, J.D.H. "The last is *Plag. spinulosa* (Dicks.) Dum." D.A.J.

141. *Leptoscyphus Taylora* Mitt., Penyghent (64), June 1918, W.G.T.

145. *Lophocolea cuspidata* Limpr., St. Cleer (2), May 1918, R.W.S.

151. *Harpanthus Flotowianus* Nees, Ben Douran (98), August 1913, D.A.J.
154. *Saccogyna viticulosa* (Sm.) Dum., Dalar (46), 1917, R.J.
155. *Cephalozia bicuspidata* (L.) Dum., Brown's Bog, Grey Abbey (I. 38), April 1916, J.G.
163. *C. media* Lindb., Ceunant Llenyrch, Maentwrog Valley (48), January 1918, D.A.J.
166. *C. leucantha* Spruce, Ceunant Llenyrch, Maentwrog Valley (48), January 1918, D.A.J.
179. *Cephaloziella aeraria* (Pears.) Macv., Copper Mine, Llanfrothen (48), January 1917; also, Copper Mine, Rhaiadr-y-Cwm, Llan Ffestiniog (48), February 1919, D.A.J.
184. *Eremonotus myriocarpus* (Carr.) Pears., Ben Lawers (88), August 1913, D.A.J.
186. *Pleuroclada albescens* (Hook.) Spruce, Ben Laoigh (88), August 1913, D.A.J.
190. *Adelanthus decipiens* (Hook.) Killarney (I. 1), July 1909, W.G.T.
205. *Lepidozia Pearsoni* Spruce, Ceunant Coch, Llanfrothen (48), March 1915, D.A.J.
208. *Blepharostoma trichophyllum* Dum., Ceunant Llenyrch, Maentwrog Valley (48), August 1911, W.G.T.; also, Barr of Whealt, Co. Fermanagh (I. 83), April 1918, W.N.T.
216. *Trichocolea tomentella* (Ehrh.) Dum., Glenariff (I. 39), August 1915.
217. *Diplophyllum albicans* (L.) Dum., Glen, Port Glasgow (76), August 1913, J.G.; also, Crowan (1), Dec. 1917, R.W.S.
218. *D. taxifolium* (Wahl.) Dum., King's Seat, Killin (88), August 1913, D.A.J.
221. *Scapania compacta* (Roth.) Dum., c. per., Cowan (1), Dec. 1916, R.W.S.
226. *S. gracilis* (Lindb.) Kaal., Glen, Murlough, Co. Antrim (I. 39), August 1915, J.G.

232. *S. dentata* Dum., Moelwyn Bach (48), August 1916, var. *speciosa* Nees, Dinas Ddu Quarry, near Aberglaslyn (49), August 1916, D.A.J.
234. *S. undulata* (L.) Dum., Fathon Mt. (I. 37), October 1899, J.D.H.; also, St. Cleer (2), May 1918, R.W.S.
238. *S. irrigua* Dum., Rainford Junction (59), June 1913, W.G.T.
239. *S. Curta* Dum., Trough of Bowland (60) September 1917, W.G.T.
248. *Pleurozia purpurea* (Lightf.) Lindb., Tyndrum (88), Aug. 1913, D.A.J.
- 249 v. *Madotheca laevigata* var. *obscura* Nees, boulders in wood, Portmadoc (49), January 1919, D.A.J.
251. *M. platyphylla* (L.) Dum., Hasgurd (45), 1918, R.J.; also, Glen, Murlough Bay (I. 39), July 1915, J.G.
255. *Cololejeunea calcarea* Schiffn., Ribblesdale (64), June 1918, W.G.T.
261. *Lejeunea cavifolia* var. *heterophylla* Carr., Fowey (2), Nov. 1917, R.W.S.
268. *Marchesinia Mackaii* (Hook.) Gray, walls, near Minffordd Junction (48), May 1915, D.A.J.—mixed with *Lej. cavifolia* var. *heterophylla* Carr.
271. *Frullania Tamarisci* (L.) Dum., St. Cleer (2), May 1910, R.W.S.
275. *F. dilatata* (L.) Dum., Clowance (1), Jan. 1918, R.W.S.
280. *Anthoceros laevis* L., Sandy hedge bank, Dennington near Crewkerne (5), June 1918, H.D.