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I. Report On Temperature And Vegetation During March 1894

Robert Lindsay Curator

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Hab.—On rocks in shallow tide-pools, in the shade, at a little above half-tide level. March to July. Spores escape in June. Joppa, near Edinburgh. G. W. Traill.

This species belongs to the section *Speirogoniceæ*, in which the fertile cells at first are scattered, solitary, or two or three together, of Kjellman's sub-genus *Melanarthrum*, which is characterised by the fertile cells containing very numerous motile bodies, about $2.5\ \mu$. in diameter, so closely packed as to render the cells which contain them opaque.

Although very closely related to *A. albescens*, Kjellm., *A. Traillii* appears to be a fairly well marked species.

Named in honour of Mr. G. W. Traill, its discoverer, to whom alone is due the credit of having noted that it was different from *A. centralis*.

EXPLANATION OF FIGURES IN PLATE II.

Fig. 1. Plant natural size.

Fig. 2. Portion of tuft separated, slightly magnified.

Fig. 3. Apex of a branch, showing spiny and blunt ramuli, $\times 100$.

Fig. 4. Branch with fertile cells, $f \times 100$.

Fig. 5. Branch with hooked ramulus and fertile cells, $\times 100$.

Fig. 6. Apex of obtuse ramulus, showing perforated chlorophyll body, $\times 100$.

Fig. 7. Base of branch with rhizoidal filaments, $\times 100$.

NOTES ON GLEICHENIAS. By PERCIVAL C. WAITE.

NOTES FROM THE ROYAL BOTANIC GARDEN, EDINBURGH.

I. REPORT ON TEMPERATURE AND VEGETATION DURING MARCH 1894. By ROBERT LINDSAY, Curator.

During the month of March the thermometer was at or below the freezing point on nineteen mornings, indicating collectively for the month 63° of frost, as against 64° for the corresponding month last year. The lowest temperatures were registered on the mornings of the 12th, 27° ; 16th, 25° ; 17th, 24° ; 26th, 26° ; 27th, 25° . The day temperatures were high, the lowest being 46° , on the 5th, and the highest 65° , on the 30th. There was a fair amount of bright sunshine, and on the whole the month was a most favourable one. Vegetation generally has made good progress. The leaf-buds of deciduous trees and shrubs are well advanced. Early flowering varieties of *Rhododendron*, *Andromeda*, and *Ribes* are flowering freely.

Forsythia suspensa and *Magnolia conspicua* are unusually well flowered. Of the forty spring-flowering plants whose dates of flowering are annually recorded, the following eighteen came into flower during March, thus completing the list, viz.:—*Tussilago alba*, on 2nd March; *Narcissus pumilus*, 6th; *Scilla bifolia alba*, 6th; *S. taurica*, 6th; *Orobis vernus*, 6th; *Sisyrinchium grandiflorum album*, 12th; *Omphalodes verna*, 13th; *Draba aizoides*, 14th; *Erythronium Dens-canis*, 14th; *Aubrietia grandiflora*, 16th; *Sisyrinchium grandiflorum*, 18th; *Ribes sanguineum*, 19th; *Narcissus Pseudo-Narcissus*, 20th; *Corydalis solida*, 22nd; *Hyoseyamus Scopolia*, 22nd; *Symphytum caucasicum*, 22nd; *Adonis vernalis*, 24th; *Fritillaria imperialis*, 25th.

On the rock-garden 75 species and varieties came into flower during the month, as against 81 for March last year. Amongst the most interesting were — *Anemone ranunculoides*, *A. fulgens*, *Aubrietia Hendersonii*, *Cardamine trifoliata*, *Corydalis nobilis*, *Dentaria pentaphylla*, *D. enneaphylla*, *Doronicum caucasicum*, *Narcissus incomparabilis giganteus*, *Omphalodes verna alba*, *Pachysandra procumbens*, *Pachystima Canbyi*, *Rhododendron ciliatum*, *Saxifraga ciliata*, *S. juniperina*, *S. fimbriata*, *S. crassifolia*, *S. sancta*, *S. retusa*, *S. pyrenaica*, *Scopolia Hladnickiana*, *Soldanella montana*, etc.

Readings of exposed Thermometers at the Rock-Garden of the
Royal Botanic Garden, Edinburgh, during March 1894.

Date.	Minimum.	9 A.M.	Maximum.	Date.	Minimum.	9 A.M.	Maximum.
1st	30°	40°	48°	17th	24°	50°	54°
2nd	32	43	49	18th	34	47	55
3rd	33	44	51	19th	43	48	57
4th	33	38	49	20th	44	47	51
5th	30	39	46	21st	37	54	61
6th	37	43	49	22nd	32	45	56
7th	27	33	52	23rd	29	43	58
8th	37	45	52	24th	32	44	57
9th	34	41	55	25th	27	42	56
10th	33	40	48	26th	26	43	48
11th	35	37	49	27th	25	38	56
12th	27	42	48	28th	34	44	53
13th	30	40	48	29th	28	40	62
14th	32	43	50	30th	30	39	65
15th	28	41	50	31st	31	40	57
16th	25	41	50				

REGISTER OF SPRING-FLOWERING PLANTS, SHOWING DATES
OF FLOWERING, AT THE ROYAL BOTANIC GARDEN,
EDINBURGH, DURING THE YEARS 1893 AND 1894.

No.	Names of Plants.	First Flowers opened.	
		1893.	1894.
1	<i>Adonis vernalis</i> ,	March 13	March 24
2	<i>Arabis albida</i> ,	" 3	February 20
3	<i>Aubrietia grandiflora</i> ,	" 20	March 16
4	<i>Bulbocodium vernum</i> ,	February 10	January 12
5	<i>Corydalis solida</i> ,	March 24	March 22
6	<i>Coryllus Avellana</i> ,	February 8	February 5
7	<i>Crocus Susianus</i> ,	" 8	" 6
8	" <i>vernus</i> ,	" 14	" 12
9	<i>Daphne Mezereum</i> ,	" 19	" 19
10	<i>Dondia Epipactis</i> ,	January 16	Dec. 28 (1893)
11	<i>Draba aizoides</i> ,	March 13	March 14
12	<i>Eranthis hyemalis</i> ,	January 25	January 19
13	<i>Erythronium Dens-canis</i> ,	March 13	March 14
14	<i>Fritillaria imperialis</i> ,	April 3	" 25
15	<i>Galanthus nivalis</i> ,	January 30	January 16
16	" <i>plicatus</i> ,	" 28	" 22
17	<i>Hyoseyamus Scopolia</i> ,	March 18	March 22
18	<i>Iris reticulata</i> ,	" 3	February 19
19	<i>Leucojum vernum</i> ,	February 6	January 18
20	<i>Mandragora officinalis</i> ,	March 26	February 26
21	<i>Narcissus Pseudo-Narcissus</i> ,	" 23	March 20
22	" <i>pumilus</i> ,	" 10	" 6
23	<i>Nordmannia cordifolia</i> ,	February 20	February 14
24	<i>Omphalodes verna</i> ,	March 15	March 13
25	<i>Orobis vernus</i> ,	" 2	" 6
26	<i>Rhododendron atrovirens</i> ,	February 4	January 24
27	" <i>Nobleanum</i> ,	" 14	February 3
28	<i>Ribes sanguineum</i> ,	March 17	March 19
29	<i>Scilla bifolia</i> ,	" 6	February 5
30	" <i>alba</i> ,	" 7	March 6
31	" <i>præcox</i> ,	February 10	January 22
32	" <i>siberica</i> ,	" 14	" 22
33	" <i>taurica</i> ,	March 7	March 6
34	<i>Sisyrinchium grandiflorum</i> ,	" 2	" 18
35	" <i>album</i> ,	" 5	" 12
36	<i>Symphytum caucasicum</i> ,	" 24	" 22
37	<i>Symplocarpus foetidus</i> ,	February 14	February 13
38	<i>Tussilago alba</i> ,	" 16	March 2
39	" <i>fragrans</i> ,	" 6	Dec. 25 (1893)
40	" <i>nivea</i> ,	" 18	February 19