

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of February 1911.Lat. 57.2 Long. 3.12W Height of Cistern of the Barometer above Mean Sea Level 927 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+RAIN.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.	
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		9 P.M.			9 A.M.		9 P.M.		Ane- mometer. 9 A.M.	9 A.M.		9 P.M.		9 A.M.			At 9 A.M.	At 9 P.M.			
	Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. 9 A.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.		Species and Direction.	Amount (0-10).	Species and Direction.		Amount (0-10).	3 ins.	12 ins.					48 ins.
1	29.600	19			40	13	100	10	18	17			W	0				0						Bc	Bc	hazy clear & fair Evg frosty.	1			
2	29.500	21			44	11	90	8	16	14			SW	1				8						Bc	Bc	hazy clear & fair Evg 0	2			
3	29.550	38			42	38	80	35	38	36			WNW	1				8						Bc	Bc	clear & fair	3			
4	29.500	39			46	32	91	30	36	35			WNW	1				8						Bc	Bc	hazy clear & fair Evg frosty	4			
5	29.450	26			44	13	80	11	29	28			W	1				10						O	O	hazy dull but fair.	5			
6	29.400	32			43	25	84	22	32	31			W	1				10						O	O	dull but fair.	6			
7	29.500	37			41	33	86	30	38	36			WNW	1				10						O	O	dull but fair.	7			
8	29.500	24			40	15	93	13	30	18			W	4				0						Bc	Bc	clear & fair.	8			
9	29.150	36			42	26	86	23	32	31			SW	1				10						O	HO	dull & hazy.	9			
10	28.700	41			45	32	94	29	36	34			SE	2				10						O	H	My dull & hazy clear after	10			
11	28.900	34			44	11	96	8	31	20			W	1				0						Bc	Bc	hazy clear & fair Evg frosty	11			
12	29.000	32			44	18	90	14	30	28			SW	1				0						Bc	Bc	hazy clear & fair Pat night.	12			
13	29.050	40			46	33	91	28	41	40			W	1				7						Bc	Bc	clear & fair.	13			
14	29.050	44			46	41	98	38	42	41			SW	2				8						Bc	Bc	clear & fair Pat night.	14			
15	29.150	35			47	33	94	29	36	34			W	1				10						O	Bc	My dull & P. clear after	15			
16	28.500	42			52	33	88	30	43	42			W	6				9						O	Bc	hazy clear & fair Thd. on Pat night	16			
17	28.650	43			50	41	91	38	42	40			WNW	6				10						O	Bc	My dull clear after & at night.	17			
18	28.200	46			50	38	90	35	48	47			WNW	4				10						O	Bc	My dull & showery. Afternoon clear & at night	18			
19	28.100	37			48	33	86	30	38	37			WNW	8				10						O	O	hazy & stormy	19			
20	28.350	53			38	31	80	17	32	29			WNW	8				6						Bc	S	My clear afternoon *	20			
21	28.500	30			40	22	86	20	36	34			SW	1				10						O	Bc	My showery clear after.	21			
22	28.100	39			43	32	104	30	37	35			SE	1				10						O	B	dull & showery.	22			
23	27.700	40			46	34	80	31	44	42			SW	3				10						O	OP	Dull & showery. 10.30 to 12.30 Evg R.	23			
24	28.100	41			44	34	84	32	36	35			WNW	8				6						Bc	S	My clear afternoon * & P.	24			
25	28.250	36			48	29	121	26	36	34			W	1				10						O	Bc	My showery afternoon clear. * night	25			
26	28.480	36			44	31	104	28	39	38			WNW	8				4						Bc	Bc	clear & fair	26			
27	28.700	30			46	22	88	19	28	26			SW	1				10						O	H	My dull & hazy. Afternoon P.	27			
28	27.950	42			47	35	110	33	41	40			NE	2				10						O	Bc	10.30 to 12.30 My P. Afternoon clear	28			
29																													29	
30																													30	
31																													31	
Sums.					131	219			125	82			200		77			24												
Means.					447	278			345	32.9			2.8					76												
Instrumental Errors.																														
Corrected Means.																														

WEATHER NOTATION.

a. denotes aurora.	p. denotes mist.
b. blue sky, cloudless.	q. passing showers.
bc. blue sky with detached clouds.	r. squally.
c. sky mainly cloudy, but with openings between the clouds.	s. continuous rain.
d. completely overcast.	so. ha. solar halo.
e. drizzling rain.	t. thunder.
f. wet air, without rain falling.	ts. thunder-storm.
g. fog.	u. ugly, threatening appearance.
fe. wet fog.	v. unusual visibility of distant objects.
g. gloomy.	w. dew.
h. hail.	x. hoar frost.
l. lightning.	z. dust haze.
lu. co. lunar corona.	
lu. ha. lunar halo.	

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).		
FORCE.	FORCE.	FORCE.
0 Calm.	5 Fresh Breeze.	9 Strong Gale.
1 Light Air.	6 Strong Breeze.	10 Whole Gale.
2 Slight Breeze.	7 High Wind.	11 Storm.
3 Gentle Breeze.	8 Gale.	12 Hurricane.
4 Moderate Breeze.		

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp.

Corrected Mean at 9 P.M., minus Correction for Temp.

Mean at Station, corrected, and at 32°,

Correction for height, feet above Mean Sea Level, ... +

Mean, reduced to 32°, and Sea Level,

Highest Reading, corrected for Index error, on th,

Lowest Do. Do., on th,

Difference, or Monthly Range,

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 16th, 52

Lowest in Month, on 2th, 11

Difference, or Monthly Range, 41

Mean of all the Highest, 44.7

Mean of all the Lowest, 27.8

Difference, or Mean Daily Range, 16.9

Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), ... 36.3

Min. on Grass, Lowest in Month,

" " Mean,

Black Bulb, Max. in Sun, Highest in Month,

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 34.5

Wet Bulb, Mean of A.M. and P.M. Readings, 32.9

Computed Temperature of Dew-Point, 16.8

Do. Elastic Force of Vapour, 84%

Do. Relative Humidity (Saturation = 100), ... 84%

RAIN fell on 15 Days; Amount in Inches, 2.00

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.
A.M.		0	2	1	1	0	8	7	9	0
P.M.										
Sun.		0	4	2	2	0	16	14	18	0

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER

SUMMARY.

Number of Days of Precipitation, ... 15

Snow, 5

Hail, 0

Thunder, 0

Clear Sky, 4

Overcast, 16

Fog, 0

Ground Frost, 2

Gale, 8

INSTRUMENTS IN USE.

Barometer, No.

Dry Bulb, No.

Wet Bulb, No.

Maximum, No.

Minimum, No.

Solar Radiation, No.

Grass Min., No.

Sun Recorder, No.

1-foot Therm., No.

4-foot Therm., No.

Observations made and Return verified by John M. Group

(Signed) John M. Group

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OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of March 1911.
 Lat. 57° 2' Long. 3° 12' W. Height of Cistern of the Barometer above Mean Sea Level 927 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.
 Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+ RAIN.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.					
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 A.M.	Min. on Grass. 9 A.M.	9 A.M.		9 P.M.			9 A.M.		9 P.M.		Ane. monometer. 9 A.M.	9 A.M.		9 P.M.		9 A.M.			At 9 A.M.	At 9 P.M.							
	Barometer.	Attached Ther. meter.	Barometer.	Attached Ther. meter.	Max. 9 P.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direc. tion.	Force. Scale of 0-12.	Direc. tion.	Force. Scale of 0-12.		Species and Direc. tion.	Amount (0-10).	Species and Direc. tion.		Amount (0-10).	3 ins.	12 ins.					48 ins.				
																															inches.	°	inches.	°
1	28.450	36			26	28	108	26	35	33			118	W	4			8						Bc	Bc	Clear & fair	Evg R	1						
2	28.750	41			54	37	112	34	36	34				NW	8			7						Bc	Bc	Clear & fair		2						
3	28.900	46			51	40	108	36	48	45			104	WNW	8			9						O	Bc P	My dull clear after afternoon P.		3						
4	28.850	38			44	32	110	29	37	44				W	1			8						O	Bc	My dull Afternoon clear		4						
5	29.000	35			46	28	112	24	36	34				W	1			7						Bc	Bc	Clear & fair		5						
6	28.750	40			46	36	90	34	38	37			108	NW	2			10						O	Bc P	My dull Midday clear Afternoon P.		6						
7	29.150	32			44	24	112	21	34	31				W	1			0						B	Bc	Bright Sunshine		7						
8	28.800	37			46	31	110	28	37	35				W	3			6						Bc	Bc	Clear & fair	Dr. R.	8						
9	28.650	38			47	30	112	27	39	37				SW	8			10						O	Bc	My dull clear after		9						
10	28.500	38			48	29	100	25	38	36				W	1			6						Bc	Bc	My clear 9 a.m. to 4.30 p.m.		10						
11	28.600	35			48	28	110	23	38	35			105	SW	2			1						B	Bc	Clear & fair	* at night	11						
12	28.400	35			42	30	94	24	36	34			118	WNW	3			8						Bc	S	My clear Afternoon	*	12						
13	28.550	36			40	31	100	27	36	33			11	NW	8			10						OS	OS	My * stormy		13						
14	28.700	34			41	32	80	28	38	36			22	W	6			8						OS	OS	My * stormy		14						
15	28.600	36			43	30	100	27	37	34			26	NW	1			8						OS	OS	* throughout		15						
16	28.700	33			42	33	94	31	36	34			28	NE	1			10						OS	OS	Dull & * throughout		16						
17	28.900	38			41	32	84	30	38	37			25	E	4			10						OS	OS	* * stormy		17						
18	29.100	36			40	32	81	29	37	35			18	E	2			10						OS	OS	Dull & * throughout		18						
19	29.000	34			38	29	81	26	36	34			103	E	1			10						OS	S	Dull & * showers		19						
20	28.750	34			39	32	82	28	36	35				NE	1			10						O	O	Dull but fair		20						
21	28.950	32			40	32	80	18	34	31				E	1			0						B	Bc	Clear & fair Evg Frosty		21						
22	28.950	35			43	28	88	24	38	34				E	1			10						O	Bc	My dull clear after		22						
23	29.200	35			41	33	100	31	36	34				SE	1			10						O	Bc	My dull clear after		23						
24	29.100	36			44	27	108	28	37	36				E	2			4						Bc	Bc P	Clear & fair		24						
25	29.300	35			44	31	100	29	38	36				NE	2			8						Bc	Bc	Clear & fair		25						
26	29.300	39			42	34	90	31	37	34			109	NE	1			10						O	P	My dull Afternoon P		26						
27	29.200	39			46	35	91	32	38	36			106	NW	2			10						O	P	My dull Afternoon P		27						
28	28.900	38			44	34	83	32	39	37				NE	2			10						OP	O	My dull & P Afternoon clear		28						
29	28.950	33			42	22	86	19	36	34			102	NW	2			10						O	Bc P	My dull clear after Evg P		29						
30	28.800	38			50	30	103	27	38	36			104	NW	1			10						O	Bc	My dull & P clear after		30						
31	28.900	38			48	31	96	27	40	38				SE	1			10						O	Bc	My dull clear after		31						
Sums.					130	23			227	169			207		85			251																
Means.					46.2	30.7			37.3	35.5					2.7			8.1																
Instrumental Errors.																																		
Corrected Means.																																		

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.								
b.	blue sky, cloudless.	p.	passing showers.								
bc.	blue sky with detached clouds.	q.	squally.								
c.	sky mainly cloudy, but with openings between the clouds.	r.	continuous rain.								
d.	drizzling rain.	s.	snow.								
e.	completely overcast.	so. ha.	solar halo.								
f.	drizzling rain.	t.	thunder.								
g.	wet air, without rain falling.	t. s.	thunder-storm.								
h.	fog.	u.	ugly, threatening appearance.								
i.	wet fog.	v.	unusual visibility of distant objects.								
j.	gloomy.	w.	dew.								
k.	hall.	x.	hoar frost.								
l.	lightning.	y.	dew.								
lu. co.	lunar corona.	z.	dust haze.								
lu. ha.	lunar halo.										

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
FORCE.				FORCE.				FORCE.			
0	Calm.	5	Fresh Breeze.	9	Strong Gale.	10	Whole Gale.	11	Storm.	12	Hurricane.
1	Light Air.	6	Strong Breeze.	10	Strong Gale.	11	Whole Gale.	12	Storm.	13	Hurricane.
2	Slight Breeze.	7	High Wind.	11	Strong Gale.	12	Whole Gale.	13	Storm.	14	Hurricane.
3	Gentle Breeze.	8	Gale.	12	Strong Gale.	13	Whole Gale.	14	Storm.	15	Hurricane.
4	Moderate Breeze.										

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.
b.	blue sky, cloudless.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.
bc.	blue sky with detached clouds.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	t.	thunder.
c.	sky mainly cloudy, but with openings between the clouds.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	t. s.	thunder-storm.
d.	completely overcast.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	u.	ugly, threatening appearance.
e.	drizzling rain.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	v.	unusual visibility of distant objects.
f.	wet air, without rain falling.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	w.	dew.
g.	completely overcast.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	x.	hoar frost.
h.	drizzling rain.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.	z.	dust haze.
i.	wet fog.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.		
j.	gloomy.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.		
k.	hail.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.		
l.	lightning.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.		
lu. co.	lunar corona.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.		
lu. ha.	lunar halo.	p.	passing showers.	q.	equally.	r.	continuous rain.	s.	snow.		

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
0	Calm.	3	Fresh Breeze.	6	Strong Breeze.	9	Strong Gale.	12	Hurricane.		
1	Light Air.	4	Strong Breeze.	7	High Wind.	10	Whole Gale.				
2	Slight Breeze.	5	Strong Breeze.	8	Gale.	11	Storm.				
3	Gentle Breeze.										
4	Moderate Breeze.										

BAROMETER.
 Corrected Mean at 9 A.M., minus Correction for Temp.
 Corrected Mean at 9 P.M., minus Correction for Temp.
 Mean at Station, corrected, and at 32°,
 Correction for height, feet above Mean Sea Level, ... +
 Mean, reduced to 32°, and Sea Level,
 Highest Reading, corrected for Index error, on th.....
 Lowest Do. Do., on th.....
 Difference, or Monthly Range,

SELF-REGISTERING THERMOMETERS.
 Highest in Month, on 2 th, 54 ✓
 Lowest in Month, on 21 th, 22 ✓
 Difference, or Monthly Range, 32 ✓
 Mean of all the Highest, 46.2 ✓
 Mean of all the Lowest, 30.7 ✓
 Difference, or Mean Daily Range, 13.5 ✓
 Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), ... 37.5 ✓
 Min. on Grass, Lowest in Month,
 " " Mean,
 Black Bulb, Max. in Sun, Highest in Month,

ADDITIONAL REMARKS.

HYGROMETER.
 Dry Bulb, Mean of A.M. and P.M. Readings, 37.3 ✓
 Wet Bulb, Mean of A.M. and P.M. Readings, 35.5 ✓
 Computed Temperature of Dew-Point,
 Do. Elastic Force of Vapour, 188 ✓
 Do. Relative Humidity (Saturation = 100), ... 85.7 ✓
 RAIN fell on 16 Days; Amount in Inches, 2.07

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0-12.	
A.M.	3	5	4	2	2	1	7	7	0		
P.M.											
Sum.	6	10	8	4	4	2	16	16	0	7.7	

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.
 Number of Days of Precipitation, ... 16
 Snow, 8
 Hail, 0
 Thunder, 0
 Clear Sky, 2
 Overcast, 17
 Fog, 0
 Ground Frost, 23
 Gale, 4

INSTRUMENTS IN USE.
 Barometer, No. 1458
 Dry Bulb, No. 518
 Wet Bulb, No. 518
 Maximum, No. 67087
 Minimum, No. 66939
 Solar Radiation, No. 10244
 Grass Min., No. 854
 Sun Recorder, No.
 1-foot Therm., No.
 4-foot Therm., No.

Observations made and Return verified by John M. Inoup
Balmoral
 (Signed) John M. Inoup

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AT 11:02 AM 11 APRIL 1902

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OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of May 1911.

Lat. 57° 2' Long. 3° 12' W Height of Cistern of the Barometer above Mean Sea Level 927 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.

Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+ RAIN.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.	
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		9 P.M.			9 A.M.		9 P.M.		Anemometer. 9 A.M.	9 A.M.		9 P.M.		9 A.M.			At 9 A.M.	At 9 P.M.			
	Barometer.	Attached Thermometer	Barometer.	Attached Thermometer	Max. 9 A.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.		Species and Direction.	Amount (0-10).	Species and Direction.		Amount (0-10).	3 ins.	12 ins.					48 ins.
							inches.	°										inches.								°	°			
1	28.750	42			50	30	94	25	44	42			0.3	S	2			8					Bc	Bc	Clear fair	1				
2	29.450	45			48	42	80	40	44	41			0.8	SE	1			10					O	OP	My dull Afternoon P	2				
3	28.350	40			46	31	104	28	40	38			0.9	NE	3			10					R	Bc	My R Afternoon Clear	3				
4	28.550	45			48	38	120	30	45	40				W	4			8					Bc	B	Bright Sunshine	4				
5	28.800	42			56	30	124	26	42	41				W	2			6					Bc	B	Bright Sunshine	5				
6	29.100	44			61	31	126	29	44	42				W	1			0					B	B	Bright Sunshine	6				
7	29.000	52			58	46	126	43	54	52				SW	1			9					O	B	My dull Clear after.	7				
8	29.100	53			60	41	125	38	49	47				SW	1			0					B	B	Bright Sunshine	8				
9	29.200	50			62	39	128	35	50	49				W	1			10					O	B	My dull Clear after.	9				
10	29.150	52			64	38	125	35	52	51				W	1			0					B	B	Bright Sunshine	10				
11	29.000	50			68	38	138	36	60	58				S	1			6					B	B	Bright Sunshine	11				
12	29.000	53			68	37	133	34	58	55			0.18	W	1			0					B	Bc	Bright Sunshine Evg R	12				
13	28.800	51			58	41	98	28	53	51			0.23	NE	2			10					R	O	My R Afternoon Dull	13				
14	28.750	53			54	46	94	42	53	52			0.30	SE	1			10					O	O	My P Afternoon Dull 4.11 to 4.15	14				
15	28.550	52			54	48	115	45	52	50			0.10	NE	1			10					R	R	Dull & r throughout	15				
16	28.700	55			58	34	120	31	55	54				W	1			10					O	Bc	My dull Clear after	16				
17	28.950	53			57	38	112	35	54	52				W	1			9					Bc	Bc	Bright Sunshine	17				
18	29.000	50			58	43	112	44	50	48				E	1			6					Bc	B	Bright Sunshine	18				
19	29.200	50			61	48	116	45	53	51				W	4			10					O	Bc	My dull Clear after	19				
20	29.350	48			64	38	127	35	50	48				W	1			0					B	B	Bright Sunshine	20				
21	29.050	49			68	29	133	26	58	56				W	1			0					B	B	Bright Sunshine	21				
22	28.900	52			69	37	132	34	53	52				W	1			0					B	B	Bright Sunshine	22				
23	28.600	55			70	48	137	44	54	52				WSW	1			8					Bc	B	Bright Sunshine	23				
24	28.700	54			68	46	136	42	56	54				W	8			0					B	Bc	Clear fair	24				
25	28.700	58			68	51	134	48	59	56				SW	7			10					O	B	My dull Bright Sunshine after.	25				
26	28.950	54			67	40	126	35	58	55				W	1			0					B	B	Bright Sunshine	26				
27	29.050	58			68	50	128	46	60	58				SE	1			10					O	B	My dull Clear after.	27				
28	29.300	59			70	49	133	46	61	60				W	1			10					O	B	My dull Bright Sunshine after	28				
29	29.300	60			83	35	146	32	66	64				SW	2			0					R	B	Bright Sunshine	29				
30	29.250	57			76	38	144	35	66	63				W	4			0					B	B	Bright Sunshine Evg	30				
31	29.100	56			73	39	140	36	64	62				SW	1			0					B	B	Bright Sunshine	31				
Sums.	29.65	42			73	307			108	54			1.84		59			170												
Means.	28.956	51.4			62.4	39.9			53.5	54.7					1.9			5.5												
Instrumental Errors.										-1.0																				
Corrected Means.																														

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.								
b.	" blue sky, cloudless.	p.	" passing showers.								
bc.	" blue sky with detached clouds.	q.	" squally.								
c.	" sky mainly cloudy, but with openings between the clouds.	r.	" continuous rain.								
o.	" completely overcast.	s.	" snow.								
d.	" drizzling rain.	so. ha.	" solar halo.								
e.	" wet air, without rain falling.	t.	" thunder.								
f.	" fog.	t. s.	" thunder-storm.								
fe.	" wet fog.	u.	" ugly, threatening appearance.								
g.	" gloomy.	v.	" unusual visibility of distant objects.								
h.	" hail.	w.	" dew.								
i.	" lightning.	x.	" hoar frost.								
lu. co.	" lunar corona.	z.	" dust haze.								
lu. ha.	" lunar halo.										

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
FORCE.		FORCE.		FORCE.							
0	Calm.	5	Fresh Breeze.	9	Strong Gale.						
1	Slight Breeze.	6	Strong Breeze.	10	Whole Gale.						
2	Slight Breeze.	7	High Wind.	11	Storm.						
3	Gentle Breeze.	8	Gale.	12	Hurricane.						
4	Moderate Breeze.										

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.
b.	blue sky, cloudless.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.
bc.	blue sky with detached clouds.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	t.	thunder.
c.	sky mainly cloudy, but with openings between the clouds.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	t.	thunder.	t. s.	thunder-storm.
d.	completely overcast.	s.	snow.	so. ha.	solar halo.	t.	thunder.	t. s.	thunder-storm.	u.	unusually threatening appearance.
e.	dripping rain.	so. ha.	solar halo.	t.	thunder.	t. s.	thunder-storm.	u.	unusually threatening appearance.	v.	unusual visibility of distant objects.
f.	wet air, without rain falling.	t.	thunder.	t. s.	thunder-storm.	u.	unusually threatening appearance.	v.	unusually threatening appearance.	w.	dew.
g.	wet fog.	t. s.	thunder-storm.	u.	unusually threatening appearance.	v.	unusually threatening appearance.	w.	dew.	x.	hoar-frost.
h.	fog.	u.	unusually threatening appearance.	v.	unusually threatening appearance.	w.	dew.	x.	hoar-frost.	z.	dust haze.
i.	hail.	v.	unusually threatening appearance.	w.	dew.	x.	hoar-frost.	z.	dust haze.		
l.	lightning.	w.	dew.	x.	hoar-frost.	z.	dust haze.				
lu. co.	lunar corona.	x.	hoar-frost.	z.	dust haze.						
lu. ha.	lunar halo.	z.	dust haze.								

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
0	Calm.	5	Fresh Breeze.	10	Strong Gale.	15	Very Strong Gale.	20	Storm.	25	Hurricane.
1	Light Air.	6	Strong Breeze.	11	Whole Gale.	16	Very Strong Gale.	21	Storm.	26	Hurricane.
2	Slight Breeze.	7	High Wind.	12	Storm.	17	Very Strong Gale.	22	Storm.	27	Hurricane.
3	Gentle Breeze.	8	Gale.	13	Storm.	18	Very Strong Gale.	23	Storm.	28	Hurricane.
4	Moderate Breeze.	9	Gale.	14	Storm.	19	Very Strong Gale.	24	Storm.	29	Hurricane.

BAROMETER.	
Corrected Mean at 9 A.M., minus Correction for Temp.	5.9
Corrected Mean at 9 P.M., minus Correction for Temp.	
Mean at Station, corrected, and at 32°,	18.877
Correction for height, feet above Mean Sea Level, ...	+ 1.000
Mean, reduced to 32°, and Sea Level,	29.877
Highest Reading, corrected for Index error, on th,	
Lowest Do. Do., on th,	
Difference, or Monthly Range,	

SELF-REGISTERING THERMOMETERS.	
Highest in Month, on th,	83.0
Lowest in Month, on th,	24.0
Difference, or Monthly Range,	59.0
Mean of all the Highest,	62.4
Mean of all the Lowest,	39.9
Difference, or Mean Daily Range,	22.5
Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), ...	51.2
Min. on Grass, Lowest in Month,	
" " Mean,	
Black Bulb, Max. in Sun, Highest in Month,	

ADDITIONAL REMARKS.

HYGROMETER.	
Dry Bulb, Mean of A.M. and P.M. Readings,	53.5
Wet Bulb, Mean of A.M. and P.M. Readings,	2.8
Computed Temperature of Dew-Point,	
Do. Elastic Force of Vapour,	33.4
Do. Relative Humidity (Saturation = 100), ...	81%
RAIN fell on Days; Amount in Inches,	7 1.84

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0-12.	
A.M.	0	3	1	2	3	5	15	2	0		
P.M.											
Sum.	0	6	2	4	6	10	30	4	0	19	

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered at the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, ...	7
Snow,	0
Hail,	0
Thunder,	1
Clear Sky,	12
Overcast,	13
Fog,	0
Ground Frost,	6
Gale,	3

INSTRUMENTS IN USE.

Barometer, No. 1758	
Dry Bulb, No. 518	
Wet Bulb, No. 518	
Maximum, No. 670.64	
Minimum, No. 669.39	
Solar Radiation, No. 10474	
Grass Min., No. 864	
Sun Recorder, No.	
1-foot Therm., No.	
4-foot Therm., No.	

Observations made and Return verified by John A. Group

(Signed) John A. Group

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of June 1911.Lat. 57.2 Long. 3 12 W Height of Cistern of the Barometer above Mean Sea Level 927 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+ RAIN.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		9 P.M.			9 A.M.		9 P.M.		9 A.M.		9 P.M.			9 A.M.			At 9 A.M.	At 9 P.M.		
	Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. 9 P.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		9 A.M.	Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.	Ane- anometer. 9 A.M.	Species and Direction.	Amount (0-10).		Species and Direction.	Amount (0-10).	3 ins.				
							inches.	°																		inches.	°		
1	29.850	64			78	52	136	50	64	6.3				W	1				6						Bc	B	Bright Sunshine	1	
2	29.200	58			78	48	138	45	63	6.1				SE	1				0						B	B	Bright Sunshine	2	
3	29.200	57			74	36	132	33	64	6.0				SW	1				0						B	B	Bright Sunshine	3	
4	29.250	59			76	36	138	34	58	5.6				S	4				0						B	0	My Bright Afternoon Dull	4	
5	29.340	61			78	41	139	39	59	5.8				SW	1				0						B	B	Bright Sunshine	5	
6	29.450	57			79	36	142	34	61	6.0				W	1				2						B	B	Bright Sunshine	6	
7	29.400	58			78	38	143	37	63	6.1				SW	1				0						B	B	Bright Sunshine	7	
8	29.250	63			66	49	128	47	64	6.3			.05	W	2				0						B	Bc	Clear fair Evg	8	
9	29.100	55			58	46	108	42	54	5.2				W	6				10						0	Bc	My dull clear after	9	
10	29.000	51			57	37	106	33	53	5.0				W	1				10						0	Bc	My O. afternoon clear	10	
11	28.950	51			54	41	104	38	50	4.8				SW	1				10						0	0	Dull but fair	11	
12	28.900	48			51	31	104	28	43	4.2			.04	W	6				10						0	0	Dull but fair Evg	12	
13	28.950	49			52	34	118	34	46	4.3			.03	W	6				10						0	0	1.35 pm Dull & Showery	13	
14	29.052	48			54	34	110	30	46.6	4.3.3				W	4				10						Bc	Bc	Clear fair Evg Frosty	14	
15	29.140	45			60	29	124	26	50	4.6.4				W	3				6						Bc	Bc	Clear fair	15	
16	29.050	49			65	28	140	26	58	5.7			.03	SW	1				3						Bc	Bc	Clear fair P at night	16	
17	28.450	52			58	33	94	29	44.8	4.5.2			.10	SS	6				10						0	0	Dull & P throughout	17	
18	28.450	55			59	51	126	48	55.1	4.8.6			.15	SW	1				10						0	R	My dull t. & l. 1 to 4 pm afternoon R	18	
19	28.560	56			62	44	126	41	61	5.3				W	3				6						Bc	Bc	Bright Sunshine t. & l. 5 to 7 pm	19	
20	28.600	57			63	43	120	40	56	5.3.8				SW	4				6						Bc	Bc	Clear fair	20	
21	28.862	55			60	46	90	43	56	5.4.1			.15	W	1				10						0	R	My dull clear after Evg R	21	
22	28.400	58			64	52	124	47	57.3	5.4.2			.03	SS	6				10						0	Bc	My P. Afternoon clear.	22	
23	28.600	55			60	44	104	41	56.2	5.3.6				W	2				10						0	Bc	My dull clear after	23	
24	28.762	54			58	41	96	39	55	5.2.4			.47	NE	3				10						0	0	My dull afternoon & Evg R	24	
25	28.450	52			56	43	90	40	53	5.0.2			.15	W	6				10						0	0	Dull & Showery. 5 pm to 7 pm	25	
26	28.660	48			55	42	103	40	46	4.4			.06	W	8				10						0	0	Dull & Showery.	26	
27	28.950	48			61	44	100	39	53.5	4.8				W	1				0						B	Bc	Clear fair	27	
28	28.850	55			59	51	110	49	55.1	5.3				SW	1				10						0	Bc	Dull & fair	28	
29	28.800	54			62	50	123	47	55.2	5.2.8				W	1				8						Bc	Bc	Clear fair	29	
30	28.500	52			63	49	120	45	57.5	4.9				SW	1				10						0	Bc	My dull clear after with P.	30	
31																													31
Sums.	27536	124			98	52			1543	758			126		84				197										
Means.	28.918	54.1			63.3	41.7			55.1	52.5					2.8				6.6										
Instrumental Errors.	+0.100																												
Corrected Means.	29.018																												

WEATHER NOTATION.

a. denotes aurora.	m. denotes mist.
b. " blue sky, cloudless.	p. " passing showers.
bc. " blue sky with detached clouds.	q. " squally.
c. " sky mainly cloudy, but with openings between the clouds.	r. " continuous rain.
o. " completely overcast.	s. " snow.
d. " drizzling rain.	so. ha. " solar halo.
e. " wet air, without rain falling.	t. " thunder.
f. " fog.	t. s. " thunder-storm.
fe. " wet fog.	u. " ugly, threatening appearance.
g. " gloomy.	v. " unusual visibility of distant objects.
h. " hail.	w. " dew.
i. " lightning.	x. " hoar frost.
lu. co. " lunar corona.	z. " dust haze.
lu. ha. " lunar halo.	

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.	FORCE.	FORCE.
0 Calm.	5 Fresh Breeze.	9 Strong Gale.
1 Light Air.	6 Strong Breeze.	10 Whole Gale.
2 Slight Breeze.	7 High Wind.	11 Storm.
3 Gentle Breeze.	8 Gale.	12 Hurricane.
4 Moderate Breeze.		

WEATHER NOTATION.

a. denotes aurora.	m. denotes mist.
b. " blue sky, cloudless.	p. " passing showers.
bc. " blue sky with detached clouds.	q. " squally.
c. " sky mainly cloudy, but with openings between the clouds.	r. " continuous rain.
d. " completely overcast.	s. " snow.
e. " drizzling rain.	so. ha. " solar halo.
f. " fog.	t. " thunder.
fe. " wet fog.	t. s. " thunder-storm.
g. " gloomy.	u. " ugly, threatening appearance.
h. " hail.	v. " unusual visibility of distant objects.
i. " lightning.	w. " dew.
lu. co. " lunar corona.	x. " hoar frost.
lu. ha. " lunar halo.	z. " dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.	0	1	2	3	4	5	6	7	8	9	10	11	12
Force.	Calm.	Light Air.	Slight Breeze.	Gentle Breeze.	Moderate Breeze.	Fresh Breeze.	Strong Breeze.	High Wind.	Gale.	Strong Gale.	Whole Gale.	Storm.	Hurricane.

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 0.66 } 28.952
Corrected Mean at 9 P.M., minus Correction for Temp. }
Mean at Station, corrected, and at 32°, 28.952
Correction for height, feet above Mean Sea Level, + 1.000
Mean, reduced to 32°, and Sea Level, 29.952
Highest Reading, corrected for Index error, on th,....
Lowest Do. Do., on th,....
Difference, or Monthly Range,

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 6 th, 79
Lowest in Month, on 16 th, 28
Difference, or Monthly Range, 51
Mean of all the Highest, 63.3
Mean of all the Lowest, 41.7
Difference, or Mean Daily Range, 21.6
Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 52.5
Min. on Grass, Lowest in Month,
" " Mean,
Black Bulb, Max. in Sun, Highest in Month,

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 54.7
Wet Bulb, Mean of A.M. and P.M. Readings, 52.0
Computed Temperature of Dew-Point,
Do. Elastic Force of Vapour, .352
Do. Relative Humidity (Saturation = 100), 82%
RAIN fell on 11 Days; Amount in Inches, 1.26

WIND.	SUMMARY.											
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Mean Force Variable.	0-12.	
A.M.		1	1	1	2	2	8	10	5			
P.M.												
Sum.		2	2	2	4	4	16	20	10	0	2.8	

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, ... 11
Snow, 0
Hail, 0
Thunder, 2
Clear Sky, 7
Overcast, 16
Fog, 0
Ground Frost, 2
Gale, 8

INSTRUMENTS IN USE.

Barometer, No. 1758
Dry Bulb, No. 518
Wet Bulb, No. 518
Maximum, No. 67064
Minimum, No. 66839
Solar Radiation, No. 10444
Grass Min., No. 854
Sun Recorder, No.
1-foot Therm., No.
4-foot Therm., No.

Observations made and Return verified by John M. Group

(Signed) John M. Group

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST



SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of July 1911.
 Lat. 57 2 Long. 3 12 0 Height of Cistern of the Barometer above Mean Sea Level 227 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.
 Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+ RAIN.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.		
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 A.M.	Min. on Grass. 9 A.M.	9 A.M.		3 P.M.			Amount at 9 A.M.	9 A.M.		9 P.M.	Anemometer. 9 A.M.	9 A.M.		9 P.M.		9 A.M.			At 9 A.M.	At 9 P.M.				
	Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. 9 A.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force. Scale of 0-12.			Direction.	Force. Scale of 0-12.	Species and Direction.		Amount (0-10).	Species and Direction.	Amount (0-10).					3 ins.	12 ins.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.																		
1	28.524	53			56	45	120	43	53	50.2	56	52.4	33	W	1			6								Bc	PR	My dull Midday & P Showers Evg R	1		
2	28.760	50			52	40	110	38	51	49.5	54	50.3	09	SW	1			10								O	BcP	My dull clear after Evg P	2		
3	29.100	49			58	36	128	32	52	49.6	56.3	51.5	03	W	3			3								Bc	Bc	clear & fair Evg P	3		
4	29.100	52			73	50	136	48	56	54.5	58.3	57.6		SW	1			8								O	Bc	My dull clear after.	4		
5	29.200	51			77	56	133	52	66	62	60	54.6		WNW	6			6								Bc	Bc	clear of air Evg O	5		
6	29.000	53			65	57	112	55	62	58.5	57	56.2	02	W	6			10								O	Bc	My dull & P clear after.	6		
7	29.150	54			65	50	123	47	55	51	59.3	53.7		ESE	1			10								O	Bc	My dull clear after.	7		
8	29.200	60			68	53	120	51	55.5	52.3	58.2	51.6		WNW	3			8								Bc	Bc	clear of air.	8		
9	29.450	58			73	49	138	45	58.3	54.5	66	60.3		W	1			0								B	B	Bright Sunshine	9		
10	29.530	55			84	37	149	35	64	61	72.5	58.4		SW	1			0								B	B	Bright Sunshine	10		
11	29.550	60			82	44	143	40	68	62.8	71.6	62.4		W	1			0								B	B	Bright Sunshine	11		
12	29.550	62			84	45	146	43	73	64.5	73	58.6		SW	1			0								B	B	Bright Sunshine	12		
13	29.452	61			88	46	152	41	69.6	61.8	75.4	62.3		W	1			0								B	B	Bright Sunshine	13		
14	29.356	64			75	46	160	43	60	56.2	71	66.5		SW	1			0								B	Bc	clear of air Evg O	14		
15	29.350	57			68	48	108	45	56.5	52.4	60	58	03	WNW	1			8								O	Bc	My dull clear after Evg P	15		
16	28.900	49			60	52	102	50	53	51.4	58	54	35	WNW	4			10								O	B	My dull afternoon P Evg R	16		
17	28.678	54			62	45	103	41	50	49	56	52.8	05	SE	1			10								M.P.	Bc	My M & P clear after	17		
18	28.506	56			63	44	110	41	54.5	51	58	54		W	3			8								Bc	Bc	clear of air	18		
19	28.750	52			66	37	118	33	56.5	53	63.2	56.4		W	1			10								Bc	Bc	clear of air	19		
20	29.000	54			67	32	113	30	57	54	66	57.4	10	SW	1			5								Bc	P	My clear afternoon P	20		
21	28.950	52			68	56	106	54	67	64.5	68.4	64		SW	4			5								Bc	Bc	clear of air	21		
22	28.900	56			72	47	121	43	60.6	58	69	61		W	1			10								O	Bc	My dull clear after	22		
23	29.100	54			64	37	120	34	51	50	61	53		W	3			8								Bc	Bc	clear of air	23		
24	28.950	45			62	51	104	47	57.4	54.2	63.4	56.5		W	1			6								Bc	Bc	clear of air	24		
25	28.750	58			64	49	108	46	56	53	59	56		SW	1			10								P	Bc	My P clear after 5.30 P m	25		
26	28.800	53			64	50	110	47	58	56	58.4	52	06	W	1			10								DP	Bc	My dull & P clear after.	26		
27	28.750	50			67	51	104	48	56.6	53	68	60	13	SW	2			10								O	P	My dull clear after Evg P	27		
28	28.900	60			70	53	116	49	56	53	69.4	58.2		W	1			10								O	Bc	My dull clear after.	28		
29	29.200	60			73	52	118	48	58	54	68.2	61.5	04	SW	2			8								Bc	BcH	clear of air Evg Hazy	29		
30	28.800	58			76	54	123	51	61	58.4	74	63.4		SW	6			8								Bc	Bc	clear of air Evg O	30		
31	28.950	64			78	56	120	52	65	63.5	71	64.8		WNW	4			0								B	Bc	clear of air	31		
Sums.	1156	167			279	128			143	127	164	123						192													
Means.	29.037	55.4			69.0	47.4			58.6	55.3	63.9	57.0		2.1				6.2													
Instrumental Errors.	+ .100								-4	-5	-4	-5																			
Corrected Means.	.137								3.4	7.0																					

a.	denotes aurora.	m.	denotes mist.
b.	blue sky, cloudless.	p.	passing showers.
bc.	blue sky with detached clouds.	q.	squally.
c.	sky mainly cloudy, but with openings between the clouds.	r.	continuous rain.
		s.	snow.
o.	completely overcast.	so. ha.	solar halo.
d.	drizzling rain.	t.	thunder.
e.	wet air, without rain falling.	t. s.	thunder-storm.
f.	fog.	u.	ugly, threatening appearance.
fe.	wet fog.	v.	unusual visibility of distant objects.
g.	gloomy.	w.	dew.
h.	hail.	x.	hoar frost.
l.	lightning.	z.	dust haze.
lu. co.	lunar corona.		
lu. ha.	lunar halo.		

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).					
FORCE.		FORCE.		FORCE.	
0	Calm.	5	Fresh Breeze.	9	Strong Gale.
1	Light Air.	6	Strong Breeze.	10	Whole Gale.
2	Slight Breeze.	7	High Wind.	11	Storm.
3	Gentle Breeze.	8	Gale.	12	Hurricane.
4	Moderate Breeze.				

WEATHER NOTATION.

a. denotes aurora.	m. denotes mist.
b. " blue sky, cloudless.	p. " passing showers.
bc. " blue sky with detached clouds.	q. " squally.
c. " sky mainly cloudy, but with openings between the clouds.	r. " continuous rain.
o. " completely overcast.	s. " snow.
d. " drizzling rain.	so. ha. " solar halo.
e. " wet air, without rain falling.	t. " thunder.
f. " fog.	t. s. " thunder-storm.
fe. " wet fog.	u. " ugly, threatening appearance.
g. " gloomy.	v. " unusual visibility of distant objects.
h. " hail.	w. " dew.
l. " lightning.	x. " hoar frost.
lu. co. " lunar corona.	z. " dust haze.
lu. ha. " lunar halo.	

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.	FORCE.	FORCE.
0 Calm.	5 Fresh Breeze.	9 Strong Gale.
1 Light Air.	6 Strong Breeze.	10 Whole Gale.
2 Slight Breeze.	7 High Wind.	11 Storm.
3 Gentle Breeze.	8 Gale.	12 Hurricane.
4 Moderate Breeze.		

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 70 } .067
 Corrected Mean at 9 P.M., minus Correction for Temp. 70 }
 Mean at Station, corrected, and at 32°, .067
 Correction for height, feet above Mean Sea Level, + 990
 Mean, reduced to 32°, and Sea Level, 30.057
 Highest Reading, corrected for Index error, on th,
 Lowest Do. Do., on th,
 Difference, or Monthly Range,

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 13 th, 88 ✓
 Lowest in Month, on 20 th, 32 ✓
 Difference, or Monthly Range, 56 ✓
 Mean of all the Highest, 69.0 ✓
 Mean of all the Lowest, 47.4 ✓
 Difference, or Mean Daily Range, 21.6 ✓
 Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 58.2 ✓
 Min. on Grass, Lowest in Month,
 " " Mean,
 Black Bulb, Max. in Sun, Highest in Month,

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 58.2 - 60.7
 Wet Bulb, Mean of A.M. and P.M. Readings, 54.8 - 53.7
 Computed Temperature of Dew-Point, 73
 Do. Elastic Force of Vapour, .385
 Do. Relative Humidity (Saturation = 100), 79%
 RAIN fell on 11 Days; Amount in Inches, 1.23

WIND.	SUMMARY.										
	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0-12.	
A.M.	1		1	1	2	9	14	3			
P.M.											
Sum.	2	0	2	2	4	18	28	6	0	21	

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
 † Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, 11
 Snow, 0
 Hail, 0
 Thunder, 0
 Clear Sky, 8
 Overcast, 11
 Fog, 0
 Ground Frost, 1
 Gale, 2

INSTRUMENTS IN USE.

Barometer, No. 1758
 Dry Bulb, No. 518
 Wet Bulb, No. 518
 Maximum, No. 67067
 Minimum, No. 66939
 Solar Radiation, No. 10477
 Grass Min., No. 854
 Sun Recorder, No.
 1-foot Therm., No.
 4-foot Therm., No.

Observations made and Return verified by John M. Group

(Signed) Group

THE SECRETARY



SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY 200511

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of August 1911.

Lat. 57° 2' Long. 3° 12' W Height of Cistern of the Barometer above Mean Sea Level 727 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.

Height of Gauge above Mean Sea Level 727 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				† RAIN.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.		
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		9 P.M.			9 A.M.		9 P.M.		Ane- mometer. 9 A.M.	9 A.M.		9 P.M.		9 A.M.			At 9 A.M.	At 9 P.M.				
	Barometer.	Attached Thermometer	Barometer.	Attached Thermometer.	Max. 9 P.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Amount at 9 A.M.	9 A.M.		9 P.M.		Species and Direc- tion.	Amount (0-10).	Species and Direc- tion.		Amount (0-10).	3 ins.	12 ins.					48 ins.	
															Direction.	Force. Scale of 0-12.	Direction.														Force. Scale of 0-12.
inches.	°	inches.	°	°	°	°	°	°	°	°	inches.	Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.	°	°	°							
1	28.950	62		76	54	118	57	66	63	68.6	59.8	12	SW	1										Bc	P	My clear Afternoon P t 4 to 5 Pm	1				
2	29.000	61		81	49	137	46	64.5	62	67	60.6	06	W	2										Bc	P	clear fair Evg 0 P	2				
3	28.850	65		74	52	112	50	63	61.4	69	62.4	—	SW	3										Bc	Bc	clear fair t 3 to 3 30 Pm	3				
4	28.832	66		70	43	117	40	61	59	71.6	59.8	—	W	1										Bc	Bc	clear fair Evg 0	4				
5	28.650	57		73	50	118	46	57	53	72.4	63	—	SW	6										O	Bc	My dull clear after	5				
6	28.600	56		69	43	120	40	54.6	50	66	61.4	03	SW	4										Bc	Bc P	clear fair Evg 0 P	6				
7	28.850	59		69	44	142	39	58.3	54	64	57	—	W	1										O	Bc	My dull clear after.	7				
8	29.050	63		78	61	148	56	56	51.4	76	71.4	—	W	1										Bc	B	Bright Sunshine	8				
9	29.000	68		82	53	146	50	70.3	64	78	70.2	—	SW	1										B	B	Bright Sunshine t 9.30 to 11 Pm	9				
10	29.150	62		86	51	148	47	66.4	61	77	73	—	W	1										B	B	Bright Sunshine	10				
11	29.300	57		82	49	143	46	72	68	76	68.4	—	SW	1										B	B	Bright Sunshine	11				
12	29.250	60		69	51	112	47	56	54.3	63	58	—	SW	1										M	B	My dull hazy Afternoon Bright.	12				
13	29.300	59		80	53	140	50	55	53	66	61.2	—	W	1										M	B	My hazy Afternoon Bright.	13				
14	29.300	62		76	55	138	52	57	54	68	64	—	SW	1										h	B	My hazy clear after.	14				
15	29.200	57		65	43	135	40	56.3	52.8	64	56	—	W	1										Bc	B	Bright Sunshine	15				
16	29.150	56		69	44	136	39	57	51	68	59	—	SW	1										Bc	Bc	clear fair	16				
17	29.050	57		68	37	136	34	53	50	66	61	—	W	1										B	Bc	clear fair	17				
18	29.100	52		66	40	132	37	53	50.3	68.6	62.6	—	SW	1										Bc	Bc	clear fair	18				
19	29.000	57		62	43	128	39	58.4	53	64.3	4.2	03	W	4										O	O	Dull & hazy P	19				
20	28.800	56		60	50	104	46	54	52	67	58	—	SW	1										O	Bc	My dull clear after	20				
21	28.850	53		64	47	100	44	57	53	64.3	59	—	SW	1										Bc	Bc	clear fair	21				
22	28.800	55		63	47	110	45	53	48	63	61	08	W	1										O	Bc P	My dull clear after Evg P	22				
23	28.700	54		62	47	108	43	52	50	61	59	—	SW	1										Bc	Bc	clear fair	23				
24	28.700	49		64	35	112	32	52	49	63.7	59	12	W	1										O	P	Dull & Showery	24				
25	28.500	57		67	50	100	47	62	60	64.3	60.2	—	SW	3										Bc	Bc	clear fair Evg 0	25				
26	28.700	58		68	51	110	46	60.3	59	65.3	61	—	SW	1										O	Bc	My dull clear after	26				
27	28.750	53		69	40	108	35	56	53	66.3	61	—	W	3										Bc	Bc	clear fair	27				
28	28.684	54		68	47	135	43	56	54	64	60	46	SW	3										Bc	Bc	clear fair Evg 0 t 4.50 to 9 Pm	28				
29	28.624	57		68	45	135	42	55	50	63	58.3	—	W	6										O	Bc	clear fair	29				
30	29.050	47		66	37	133	34	47	45	63.5	59	—	SW	2										Bc	Bc	clear fair	30				
31	28.800	55		64	39	124	36	56	52	62	60	02	SW	4										Bc	Bc	clear fair P	31				
Sums.	28.740	228		12210				2457	404	2169	465	92		69																	
Means.	28.927	57.4		70.4	46.8			57.9	54.5	67.0	61.5			1.9																	
Instrumental Errors.	+1.00			-1.0																											
Corrected Means.	29.027			69.4				57.7	54.1	68	61.0																				

WEATHER NOTATION.

a. denotes aurora.
b. blue sky, cloudless.
bc. blue sky with detached clouds.
c. sky mainly cloudy, but with openings between the clouds.
o. completely overcast.
d. drizzling rain.
e. wet air, without rain falling.
f. fog.
fe. wet fog.
g. gloomy.
h. hail.
l. lightning.
lu. co. lunar corona.
lu. ha. lunar halo.

m. denotes mist.
p. passing showers.
q. squally.
r. continuous rain.
s. snow.
so. ha. solar halo.
t. thunder.
t. s. thunder-storm.
u. ugly, threatening appearance.
v. unusual visibility of distant objects.
w. dew.
x. hoar frost.
z. dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND.—(0—12).

FORCE.

0 Calm.
1 Light Air.
2 Slight Breeze.
3 Gentle Breeze.
4 Moderate Breeze.

FORCE.

5 Fresh Breeze.
6 Strong Breeze.
7 High Wind.
8 Gale.

FORCE.

9 Strong Gale.
10 Whole Gale.
11 Storm.
12 Hurricane.

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.
b.	blue sky, cloudless.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.
bc.	blue sky with detached clouds.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	t.	thunder.
c.	sky mainly cloudy, but with openings between the clouds.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	t. s.	thunder-storm.
d.	completely overcast.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	u.	ugly, threatening appearance.
e.	drizzling rain.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	v.	unusual visibility of distant objects.
f.	wet air, without rain falling.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	w.	dew.
g.	fog.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	x.	hoar frost.
h.	gloomy.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	z.	dust haze.
i.	hail.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.		
l.	lightning.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.		
lu. co.	lunar corona.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.		
lu. ha.	lunar halo.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.		

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
Force.	0	1	2	3	4	5	6	7	8	9	10
Force.	0	1	2	3	4	5	6	7	8	9	10
Force.	0	1	2	3	4	5	6	7	8	9	10

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp. 7.7

Corrected Mean at 9 P.M., minus Correction for Temp. 7.7

Mean at Station, corrected, and at 32', 28.950

Correction for height, feet above Mean Sea Level, + 99.5

Mean, reduced to 32', and Sea Level, 29.945

Highest Reading, corrected for Index error, on th.

Lowest Do. Do. on th.

Difference, or Monthly Range, 77

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 10 th. 86

Lowest in Month, on 24 th. 35

Difference, or Monthly Range, 51

Mean of all the Highest, 69.4

Mean of all the Lowest, 46.8

Difference, or Mean Daily Range, 22.6

Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), 58.6

Min. on Grass, Lowest in Month, 37

Black Bulb, Max. in Sun, Highest in Month, 77

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings, 57.9 62.5

Wet Bulb, Mean of A.M. and P.M. Readings, 54.1 57.6

Computed Temperature of Dew-Point, 51

Do. Elastic Force of Vapour, 371

Do. Relative Humidity (Saturation = 100), 77

RAIN fell on 8 Days; Amount in Inches, 0.92

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0-12.	
A.M.											
P.M.											
Sum.	0	0	2	0	10	24	24	2	0	1.9	

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, 8

Snow, 0

Hail, 0

Thunder, 4

Clear Sky, 3

Overcast, 14

Fog, 0

Ground Frost, 0

Gale, 25

INSTRUMENTS IN USE.

Barometer, No. 1

Dry Bulb, No. 1

Wet Bulb, No. 1

Maximum, No. 1

Minimum, No. 1

Solar Radiation, No. 1

Grass Min., No. 1

Sun Recorder, No. 1

1-foot Therm., No. 1

4-foot Therm., No. 1

Observations made and Return verified by John Mc Group

(Signed) John Mc Group

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

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SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Perthshire, During the MONTH of September 1911.

Lat. 57° 2' Long. 3° 12' W Height of Cistern of the Barometer above Mean Sea Level 427 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.

Height of Gauge above Mean Sea Level 427 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+ RAIN.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.
	9 A.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.		Min. on Grass. 9 A.M.		9 A.M.		3 P.M.			9 A.M.		9 P.M.		9 A.M.		9 P.M.			9 A.M.			At 9 A.M.	At 9 P.M.		
	Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. 9 A.M.	Min. 9 P.M.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Amount at 9 A.M.	Direction.		Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.	Anemometer. 9 A.M.	Species and Direction.	Amount (0-10).	Species and Direction.	Amount (0-10).		3 ins.	12 ins.	48 ins.	9 A.M.	9 P.M.		
	inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°		°	°	°	°	°		
1	28.800	58	62	62	53	129	30	56	54	60	53.6	-	W	1				10							Bc	Bc	Clear fair	1	
2	28.895	59	73	66	51	120	50	61	54	59.6	52	-	W	2				4							Bc	Bc	Clear fair	2	
3	29.050	54	67	61	47	126	43	53	49	59	56	-	W	1				7							Bc	Bc	Clear fair by frost	3	
4	29.164	44	65	63	52	120	38	53	54	63.2	58	-	SW	4				5							Bc	B	Bright Sunshine	4	
5	28.950	56	71	66	41	128	38	37	56	66.5	60	-	W	6				6							Bc	B	Very Bright Sunshine	5	
6	29.050	57	76	77	55	135	50	54	53	68.6	62	-	W	4				6							Bc	Bc	Clear fair	6	
7	29.000	56	76	70	52	136	47	53	57.4	68.4	63	-	W	1				0							B	B	Bright Sunshine	7	
8	28.950	68	65	60	50	110	45	55	54	60	57	1/2	W	4				7							Bc	B	My clear after	8	
9	29.050	50	59	60	57	140	34	40	38	56.6	49	-	W	1				6							Bc	Bc	Clear fair	9	
10	29.100	48	63	67	55	138	32	45	43.5	64.2	55	-	W	2				7							Bc	Bc	Clear fair	10	
11	28.900	58	69	67	58	128	34	67	64	60	55	-	W	1				10							B	Bc	My dull clear after	11	
12	29.000	55	60	66	48	128	45	50	49	59.4	56	-	W	1				10							B	Bc	My dull clear after	12	
13	28.850	56	60	68	52	108	29	35	34	66.5	60.3	-	W	1				6							Bc	Bc	My clear fair	13	
14	29.050	49	56	58	39	120	35	26	42	58.6	52.6	1/2	W	2				10							B	Bc	My dull clear after	14	
15	29.200	46	54	56	40	120	37	43	40	58.3	54	-	W	6				8							Bc	Bc	Clear fair	15	
16	29.300	47	59	57	40	120	38	42	40	55.4	53	-	W	1				6							Bc	B	Bright Sunshine	16	
17	29.150	44	62	60	29	123	24	35	33	58.6	52	-	W	1				4							Bc	Bc	Clear fair	17	
18	29.050	66	70	63	49	110	45	38	35	62.6	59	-	W	1				8							Bc	Bc	Clear fair	18	
19	28.950	53	65	65	50	135	48	54	51.5	60.3	58.5	0.1	W	4				8							B	Bc	My dull clear after by frost	19	
20	28.950	55	68	60	52	132	50	52	51	57	56	0.2	W	1				0							B	Bc	My clear fair after	20	
21	28.900	38	59	60	25	135	22	32	30	59.3	57	-	W	1				0							B	Bc	My clear fair	21	
22	28.650	40	57	59	26	128	24	33	32	58.4	56	-	W	1				0							B	Bc	My clear fair	22	
23	28.550	48	56	60	41	105	38	50	48	60	58	-	SW	6				10							B	B	Dull but fair	23	
24	28.620	48	66	60	39	125	36	43	41	58.4	56	-	W	2				6							Bc	Bc	Clear fair by frost	24	
25	28.900	43	62	59	28	122	24	34	31	55.3	57.1	-	W	1				0							B	Bc	My clear fair by 6	25	
26	28.700	50	62	61	40	125	37	47	44	58.6	56	-	W	6				0							B	Bc	Clear fair	26	
27	28.950	51	60	56	43	113	40	50	48	55	52.4	0.1	W	8				4							Bc	Bc	Clear fair	27	
28	28.800	45	57	58	33	118	29	40	38	52.6	48	-	W	6				3							Bc	Bc	My clear fair 3.20 P.M.	28	
29	28.950	43	53	50	38	120	33	42	40	56	48	0.1	W	1				9							Bc	Bc	My clear fair	29	
30	28.800	41	51	57	34	112	29	39	37	48	46	0.2	W	3				10							Bc	P	My clear fair throughout	30	
31																												31	
Sums.	26.529	05	78	46	17		18	20	18	15	0.42		80				70												
Means.	28.884	502	62.6	61.5	40.6		46.7	44.5	58.9	54.7			2.7				5.7												
Instrumental Errors.	+0.100						-4	-5	-4	-5																			
Corrected Means.	984						2.3	4.3	3.6	3.7																			

WEATHER NOTATION.

a. denotes aurora.

b. blue sky, cloudless.

bc. blue sky with detached clouds.

c. sky mainly cloudy, but with openings between the clouds.

d. completely overcast.

e. drizzling rain.

f. wet air, without rain falling.

g. fog.

h. wet fog.

i. gloomy.

j. hall.

k. lightning.

lu. co. lunar corona.

lu. ha. lunar halo.

m. denotes mist.

p. passing showers.

q. squally.

r. continuous rain.

s. snow.

so. lu. solar halo.

t. thunder.

t. s. thunder-storm.

u. ugly, threatening appearance.

v. unusual visibility of distant objects.

w. dew.

x. hoar frost.

z. dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.

0 Calm.

1 Light Air.

2 Slight Breeze.

3 Gentle Breeze.

4 Moderate Breeze.

5 Fresh Breeze.

6 Strong Breeze.

7 High Wind.

8 Gale.

9 Strong Gale.

10 Whole Gale.

11 Storm.

12 Hurricane.

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.
b.	blue sky, cloudless.	p.	passing showers.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.
bc.	blue sky with detached clouds.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	t.	thunder.
c.	sky mainly cloudy, but with openings between the clouds.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	t. s.	thunder-storm.
d.	completely overcast.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	u.	ugly, threatening appearance.
e.	drizzling rain.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	v.	unusual visibility of distant objects.
f.	wet air, without rain falling.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	w.	dew.
g.	fog.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	x.	hoar frost.
h.	wet fog.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.	z.	dust haze.
i.	gloomy.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.		
j.	hail.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.		
k.	lightning.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.		
l.	lunar corona.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.		
lu. co.	lunar halo.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.		
lu. ha.	lunar halo.	q.	squally.	r.	continuous rain.	s.	snow.	so. ha.	solar halo.		

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
0	Calm.	5	Fresh Breeze.	9	Strong Gale.	13	Storm.	17	Hurricane.		
1	Light Air.	6	Strong Breeze.	10	Whole Gale.	14	Storm.	18	Hurricane.		
2	Slight Breeze.	7	High Wind.	11	Storm.	15	Storm.	19	Hurricane.		
3	Gentle Breeze.	8	Gale.	12	Storm.	16	Storm.	20	Hurricane.		
4	Moderate Breeze.										

BAROMETER.	
Corrected Mean at 9 A.M., minus Correction for Temp.	928
Corrected Mean at 9 P.M., minus Correction for Temp.	
Mean at Station, corrected, and at 32°	928
Correction for height, feet above Mean Sea Level, ... +	1.000
Mean, reduced to 32°, and Sea Level,	29.928
Highest Reading, corrected for Index error, on th,	
Lowest Do. Do., on th,	
Difference, or Monthly Range,	

SELF-REGISTERING THERMOMETERS.	
Highest in Month, on 6 th,	77
Lowest in Month, on 21 th,	25
Difference, or Monthly Range,	52
Mean of all the Highest,	61.5
Mean of all the Lowest,	40.6
Difference, or Mean Daily Range,	20.9
Mean Temperature of Month, 1/2 (Mean Max. + Mean Min.), ...	51.1
Min. on Grass, Lowest in Month,	
" " Mean,	
Black Bulb, Max. in Sun, Highest in Month,	

ADDITIONAL REMARKS.

HYGROMETER.	
Dry Bulb, Mean of A.M. and P.M. Readings,	46.3
Wet Bulb, Mean of A.M. and P.M. Readings,	44.0
Computed Temperature of Dew-Point,	
Do. Elastic Force of Vapour,	261
Do. Relative Humidity (Saturation = 100), ...	84%
RAIN fell on 7 Days; Amount in Inches,	0.42

WIND.	
Direction.	N NE E SE S SW W NW
A.M.	1
P.M.	1
Sum.	2

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.
† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.	
Number of Days of Precipitation, ...	7
Snow,	
Hail,	
Thunder,	
Clear Sky,	6
Overcast,	7
Fog,	0
Ground Frost,	7
Gale,	4

INSTRUMENTS IN USE.

Barometer, No. 1758	
Dry Bulb, No. 318	
Wet Bulb, No. 318	
Maximum, No. 47067	
Minimum, No. 66739	
Solar Radiation, No. 10477	
Grass Min., No. 844	
Sun Recorder, No.	
1-foot Therm., No.	
4-foot Therm., No.	

Observations made and Return verified by John M. Group
(Signed) John M. Group

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

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SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of October 1911.

Lat. 57° 2' Long. 3° 12' W Height of Cistern of the Barometer above Mean Sea Level 277 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.

Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				+RAIN.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.	
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		9 P.M.			9 A.M.		9 P.M.		Anemometer. 9 A.M.	9 A.M.		9 P.M.		9 A.M.			At 9 A.M.	At 9 P.M.			
	Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. 9 P.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.		Species and Direction.	Amount (0-10).	Species and Direction.		Amount (0-10).	3 ins.	12 ins.					48 ins.
1	29.250	40			52	33	105	30	37	35	50.6	49	—	W	3					7						Be	Be	10.15 am 1.20 pm Dull but fair	1	
2	29.050	40			49	32	90	28	34	33	49	46.6	32	W	1					10						Be	Be	Dull & P throughout Evg R	2	
3	28.950	43			48	40	108	37	41	40	46	41.4	15	W	4					10						Be	Be	My dull P after. S throughout	3	
4	29.100	43			50	40	105	37	42	40	48	42.3	—	W	8					10						Be	Be	My dull Clear after	4	
5	29.200	42			52	36	112	34	38	37	48.6	43	101	W	1					8						Be	Be	Clear & fair. 3.30 pm 4.20 pm	5	
6	29.256	45			50	40	115	37	43	41.4	48	41.4	—	E	1					10						Be	Be	My dull Clear after.	6	
7	28.950	33			55	23	116	20	28	26	51	49.4	—	W	1					0						Be	Be	My clear & fair.	7	
8	29.000	44			50	37	90	33	39	37	47	46	103	W	1					10						Be	Be	Clear & fair	8	
9	29.400	40			61	35	123	30	38	37	56	54	—	W	1					10						Be	Be	My Bright Sunshine	9	
10	29.400	33			61	34	123	20	34	32	58	54.6	—	W	4					8						Be	Be	My Bright Sunshine	10	
11	29.250	35			60	27	120	23	35	32.6	59	57	—	W	1					4						Be	Be	My Bright Sunshine Evg	11	
12	29.100	35			61	26	100	23	32	31	58	55	—	SW	1					0						Be	Be	My clear & fair Evg Hazy.	12	
13	29.000	37			50	35	84	32	40.6	37	50.6	48	—	W	1					10						Be	Be	My hazy Clear after.	13	
14	28.956	36			57	27	110	23	33	31.8	56.6	51	—	SW	1					0						Be	Be	Clear & fair P at night	14	
15	29.300	41			59	31	112	27	43	40.4	58	54	07	W	1					10						Be	Be	Clear & fair P at night	15	
16	29.450	45			53	35	87	32	49.6	46	52.6	50.3	—	SE	3					8						Be	Be	Dull but fair	16	
17	29.250	45			56	45	104	40	47	44.6	52.6	47	—	E	3					10						Be	Be	My dull Clear after	17	
18	29.100	46			58	33	115	30	38	36.7	53.7	51	—	W	1					10						Be	Be	My dull Clear after.	18	
19	29.000	43			53	41	95	36	44	41	53	51	105	W	1					10						Be	Be	Dull but fair Evg P.	19	
20	28.750	48			52	40	78	33	47	45	51.7	50	104	W	1					10						Be	Be	My P Dull after.	20	
21	28.500	47			58	40	95	37	49	47	56	51	24	W	4					10						Be	Be	My dull Afternoon P Evg R	21	
22	28.100	45			56	43	105	40	44	42	53.6	50	103	SE	1					8						Be	Be	Clear & fair Evg & frosty.	22	
23	28.228	41			52	32	87	29	43	41	51	49.8	16	W	1					10						Be	Be	My dull Afternoon P Evg R	23	
24	28.350	45			49	41	84	40	42	41	48.4	44	33	SE	3					10						Be	Be	Hazy & R throughout	24	
25	28.200	41			45	40	98	36	40	39.5	44	41	12	W	2					10						Be	Be	My dull Clear after Evg & showers	25	
26	28.200	40			47	29	99	27	33	32	46.8	42	—	W	1					7						Be	Be	Clear & fair	26	
27	28.250	37			49	27	97	25	35	34	42.8	44	—	W	2					8						Be	Be	My dull Clear after Evg & frosty	27	
28	28.800	33			44	23	115	20	34	32	43	41.4	—	W	1					4						Be	Be	Clear & fair Evg & frosty	28	
29	28.850	30			53	15	80	13	25	22	42	30	10	W	1					10						Be	Be	My dull P after	29	
30	28.150	44			52	33	84	30	49	47	50	47	40	SE	3					10						Be	Be	Clear & fair Evg R	30	
31	28.350	38			44	32	104	29	40	37	48.6	41	108	W	4					10						Be	Be	My Sn Showers Clear after	31	
Sums.	26890	35			86	105			3872	387	408	434	263							252										
Means.	28.964	41.1			52.8	33.4			39.3	37.4	51.3	47.9			20					8.1										
Instrumental Errors.	+0.100								-.4	-.5	-.4	-.5																		
Cor- rected Means.	28.964								38.9	36.9	50.9	47.4																		
									2.0	3.5																				
									1.98	2.86																				

WEATHER NOTATION.											
a.	denotes	aurora.	m.	denotes	mist.						
b.	"	blue sky, cloudless.	p.	"	passing showers.						
bc.	"	blue sky with detached clouds.	q.	"	squally.						
c.	"	sky mainly cloudy, but with	r.	"	continuous rain.						
	"	openings between the clouds.	s.	"	snow.						
o.	"	completely overcast.	so. ha.	"	solar halo.						
d.	"	drizzling rain.	t.	"	thunder.						
e.	"	wet air, without rain falling.	t. s.	"	thunder-storm.						
f.	"	fog.	u.	"	ugly, threatening appearance.						
fe.	"	wet fog.	v.	"	unusual visibility of distant objects.						
g.	"	gloomy.	w.	"	dev.						
h.	"	hail.	x.	"	hoar frost.						
l.	"	lightning.	z.	"	dust haze.						
lu. co.	"	lunar corona.									
lu. ha.	"	lunar halo.									

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).					
FORCE.	0	1	2	3	4
	Calm.	Light Air.	Slight Breeze.	Gentle Breeze.	Moderate Breeze.
FORCE.	5	6	7	8	9
	Fresh Breeze.	Strong Breeze.	High Wind.	Gale.	Strong Gale.
FORCE.	10	11	12		
	Whole Gale.	Storm.	Hurricane.		

WEATHER NOTATION.

a. denotes aurora.	m. denotes mist.
b. " blue sky, cloudless.	p. " passing showers.
bc. " blue sky with detached clouds.	q. " squally.
c. " sky mainly cloudy, but with openings between the clouds.	r. " continuous rain.
o. " completely overcast.	s. " snow.
d. " drizzling rain.	so. ha. " solar halo.
e. " wet air, without rain falling.	t. " thunder.
f. " fog.	ts. " thunder-storm.
fe. " wet fog.	u. " ugly, threatening appearance.
g. " gloomy.	v. " unusual visibility of distant objects.
h. " hail.	w. " dew.
l. " lightning.	x. " hoar frost.
lu. co. " lunar corona.	z. " dust haze.
lu. ha. " lunar halo.	

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.	FORCE.	FORCE.
0 Calm.	5 Fresh Breeze.	9 Strong Gale.
1 Light Air.	6 Strong Breeze.	10 Whole Gale.
2 Slight Breeze.	7 High Wind.	11 Storm.
3 Gentle Breeze.	8 Gale.	12 Hurricane.
4 Moderate Breeze.		

BAROMETER.

Corrected Mean at 9 A.M., minus Correction for Temp.	28.928
Corrected Mean at 9 P.M., minus Correction for Temp.	
Mean at Station, corrected, and at 32°,	28.928
Correction for height, feet above Mean Sea Level, ...	+ 1.055
Mean, reduced to 32°, and Sea Level,	29.983
Highest Reading, corrected for Index error, on th,	
Lowest Do. Do., on th,	
Difference, or Monthly Range,	

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 9 th, 12., 12.	61
Lowest in Month, on 29 th,	15
Difference, or Monthly Range,	46
Mean of all the Highest,	52.8
Mean of all the Lowest,	33.4
Difference, or Mean Daily Range,	18.4
Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), ...	42.6
Min. on Grass, Lowest in Month,	
" " Mean,	
Black Bulb, Max. in Sun, Highest in Month,	

ADDITIONAL REMARKS.

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings,	38.9
Wet Bulb, Mean of A.M. and P.M. Readings,	36.9
Computed Temperature of Dew-Point,	
Do. Elastic Force of Vapour,	1.98
Do. Relative Humidity (Saturation = 100), ...	85%
RAIN fell on 15 Days; Amount in Inches,	2.63

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0-12.	
A.M.	4	1	2	2	2	3	13	4			
P.M.											
Sum.	8	2	4	4	4	6	26	8	0	2.0	

* If Observations are taken at 9 A.M. only, the reading of the Maximum thermometer must be entered to the previous day.

† Rain to be measured at 9 A.M. and the amount entered to the previous day.

WEATHER SUMMARY.

Number of Days of Precipitation, ...	15
Snow,	2
Hail,	1
Thunder,	0
Clear Sky,	3
Overcast,	19
Fog,	1
Ground Frost,	16
Gale,	4

INSTRUMENTS IN USE.

Barometer, No.	
Dry Bulb, No.	
Wet Bulb, No.	
Maximum, No.	
Minimum, No.	
Solar Radiation, No.	
Grass Min., No.	
Sun Recorder, No.	
1-foot Therm., No.	
4-foot Therm., No.	

Observations made and Return verified by John M. Group

(Signed) John M. Group

1055

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SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

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SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Balmwood, County of Aberdeenshire, During the MONTH of November 1911.

Lat. 37 2 Long. 3 12 30 Height of Cistern of the Barometer above Mean Sea Level 917 feet, above Ground 3 feet. Diameter of Rain Gauge 12 ins.

Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 2 1/2 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				† RAIN.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.	
	9 A.M.		9 P.M.		Screen.		Black Ball Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		3 P.M.		Amount at 9 A.M.	9 A.M.		9 P.M.		Ane. monometer. 9 A.M.	9 A.M.		9 P.M.		3 ins.	12 ins.	48 ins.	At 9 A.M.	At 9 P.M.			
	Barometer.	Attached Ther. monometer	Barometer.	Attached Ther. monometer	Max. 9 P.M.	Min. 9 P.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.		Species and Direction.	Amount (0-10).	Species and Direction.									Amount (0-10).
1	28.800	40			46	34	96	31	39	36	138	414	—	W	1				4						Be	Be	Clear & fair	1		
2	28.500	42			47	36	94	32	40	37	169	41	25	NW	4				8						Be	Be	Clear & fair Evg R	2		
3	28.440	41			49	34	103	31	40	37.8	176	46	61	NW	6				10						O	R	9 am Dull & R throughout at 10 Pm	3		
4	28.150	40			46	33	90	33	40	38	140	40	56	NW	8				10						R	R	Dull & Showery. Evg R	4		
5	27.330	41			44	39	85	36	40	38	142	40	57	NW	10				10						A	R	Dull & R throughout	5		
6	28.150	40			46	37	87	34	40	36	148	41	—	W	3				7						Be	Be	Clear of air	6		
7	28.450	38			47	33	86	30	38	36	144	40	41	SW	1				8						Be	Be	Clear of air R at night	7		
8	28.100	40			46	34	113	32	37	36	144	41.6	63	NE	4				10						Be	Be	My dull & Showery. Clear after.	8		
9	28.450	34			42	25	95	23	27	26	10	38.7	—	W	1				0						Be	Be	My Clear & fair	9		
10	28.700	33			44	27	96	24	29	28	137	41	64	W	1				4						Be	Be	My Clear & fair Put night.	10		
11	28.400	36			46	31	94	29	37	35	144	42.8	102	NW	1				10						O	P	My dull afternoon B.	11		
12	28.400	36			42	32	98	28	36	34	147	39	37	NW	1				10						O	P	My dull afternoon P Evg R	12		
13	28.300	41			44	37	99	35	38	37	136	41	—	W	1				10						O	O	Dull but fair	13		
14	28.350	40			45	39	94	36	40	38.4	148	40	21	NW	1				10						O	DR	Dull but fair Evg R	14		
15	28.500	46			46	40	94	38	44	40.7	145	42.6	11	W	1				8						Be	O	My Clear dull after Evg R.	15		
16	28.050	42			42	40	92	37	40	38	141	38.5	63	SW	1				10						R	RS	Dull & R throughout * at night	16		
17	28.100	36			43	34	91	32	33	34	178	40	102	SE	1				10						OS	S	Dull & * throughout	17		
18	27.960	35			46	30	92	28	36	34	146	40	—	W	1				6						Be	O	Dull but fair Fresh	18		
19	28.000	36			44	33	90	30	37	36	143	40	23	N	1				10						O	P	Dull & P throughout	19		
20	28.450	37			40	34	87	31	38	36	138	37	20	N	3				10						S	S	Dull & * throughout	20		
21	28.300	31			41	29	89	26	37	34	137	36	53	NW	6				10						S	O	Dull & Showers. * at night.	21		
22	28.600	36			40	30	84	28	36	35	135	37	05	NW	1				10						O	R	Dull & Showery.	22		
23	28.400	35			43	31	87	27	36	35	140.7	38	—	W	1				10						O	O	Dull but fair	23		
24	27.030	33			40	30	78	28	34	33	139	36	—	SW	1				8						Be	Be	Clear & fair	24		
25	27.900	30			43	21	86	19	27	26	10	37	—	W	1				10						O	O	Dull but fair	25		
26	27.132	31			43	28	83	23	33	32	143	41.3	—	SW	1				10						O	O	Dull but fair	26		
27	28.940	36			40	30	80	26	34	31	139	36	40	SE	1				10						O	P	My dull Showery. after	27		
28	28.600	34			44	29	84	25	38	34	142	40	—	W	1				10						O	Be	My dull Clear after	28		
29	29.000	36			45	30	88	28	37	36	148	41	—	W	1				6						Be	Be	Clear of air in h. p	29		
30	29.050	38			45	37	88	24	40	33	149	43	—	SE	8				10						O	O	Dull but fair	30		
31																													31	
Sums.	15.162	216			122	69					160	145	837	297	624	83			259	✓										
Means.	28.505	37.2			44.1	32.3					36.7	34.9	42.8	39.9		28			8.6	✓										
Instrumental Errors.	+ .700 + .050				✓	✓					-4	-5	-4	-5																
Corrected Means.	28.605										1.9	3.0																		
											.179	.210																		

WEATHER NOTATION.											
a.	denotes	aurora.	m.	denotes	mist.						
b.	"	blue sky, cloudless.	p.	"	passing showers.						
bc.	"	blue sky with detached clouds.	q.	"	squally.						
c.	"	sky mainly cloudy, but with openings between the clouds.	r.	"	continuous rain.						
d.	"	completely overcast.	s.	"	snow.						
e.	"	drizzling rain.	so. ha.	"	solar halo.						
f.	"	wet air, without rain falling.	t.	"	thunder.						
fe.	"	fog.	t. s.	"	thunder-storm.						
fo.	"	wet fog.	u.	"	ugly, threatening appearance.						
g.	"	gloomy.	v.	"	unusual visibility of distant objects.						
h.	"	hail.	w.	"	dew.						
i.	"	lightning.	x.	"	hoar frost.						
lu. co.	"	lunar corona.	z.	"	dust haze.						
lu. ha.	"	lunar halo.									

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0—12).								
FORCE.			FORCE.			FORCE.		
0	Calm.	5	Fresh Breeze.	9	Strong Gale.			
1	Light Air.	6	Strong Breeze.	10	Whole Gale.			
2	Slight Breeze.	7	High Wind.	11	Storm.			
3	Gentle Breeze.	8	Gale.	12	Hurricane.			
4	Moderate Breeze.							

BAROMETER.

Corrected Mean at 9 A.M., <i>minus</i> Correction for Temp.....	2.3	} . 582 ✓
Corrected Mean at 9 P.M., <i>minus</i> Correction for Temp.....		
Mean at Station, corrected, and at 32°,		28.532
Correction for height, feet above Mean Sea Level,...	+	1.050
Mean, reduced to 32°, and Sea Level,		<u>29.582</u>
Highest Reading, corrected for Index error, on th,.....		
Lowest Do. Do., on th,.....		
Difference, or Monthly Range ,		

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 3 th ,	49. ✓
Lowest in Month, on 25 th ,	29. ✓
Difference, or Monthly Range,	28 ✓
Mean of all the Highest,	44.1 ✓
Mean of all the Lowest,	32.3 ✓
Difference, or Mean Daily Range,	11.8 ✓
Mean Temperature of Month, $\frac{1}{2}$ (Mean Max. + Mean Min.), ...	38.2 ✓
Min. on Grass, Lowest in Month,	
" " Mean,	
Black Bulb, Max. in Sun, Highest in Month,	

HYGROMETER.

Dry Bulb, Mean of A.M. and P.M. Readings,	36.3
Wet Bulb, Mean of A.M. and P.M. Readings,	34.7
Computed Temperature of Dew-Point,	
Do. Elastic Force of Vapour,	179
Do. Relative Humidity (Saturation = 100),...	84%
RAIN fell on 18 Days; Amount in Inches,	6.24

WIND.		SUMMARY.								
Direction.	N	NE	E	SE	S	SW	W	NW	Calms or Variable.	Mean Force 0-12.
A.M.	3	1		3		5	11	7		
P.M.										
Sum.	6	2	0	6	0	10	22	14	0	2.8

* If Observations are taken at 9 A.M. only, the reading of the **Maximum** thermometer must be entered to the *previous day*.

† **Rain** to be measured at 9 A.M. and the amount entered to the *previous day*.

WEATHER SUMMARY.

Number of Days of Precipitation, ...	<u>18</u>
Snow,	<u>4</u>
Hail,	<u>0</u>
Thunder,	<u>0</u>
Clear Sky,	<u>1</u>
Overcast,	<u>20</u>
Fog,	<u>0</u>
Ground Frost,	<u>17</u>
Gale,	<u>3</u>

**INSTRUMENTS
IN USE.**

Barometer, No. _____
Dry Bulb, No. _____
Wet Bulb, No. _____
Maximum, No. _____
Minimum, No. _____
Solar Radiation, No. _____
Grass Min., No. _____
Sun Recorder, No. _____
1-foot Therm., No. _____
4-foot Therm., No. _____

Observations made and
Return verified by

(Signed)

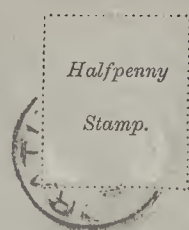
THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

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SCOTTISH METEOROLOGICAL SOCIETY

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Abertarshire, During the MONTH of December 1911.

Lat. 57 2 Long. 3 12 W Height of Cistern of the Barometer above Mean Sea Level 927 feet, above Ground 3 feet. Diameter of Rain Gauge 8 ins.

Height of Gauge above Mean Sea Level 927 feet. Height of Rim of Gauge above Ground 12 ins.

Date.	BAROMETER.				* SELF-REGISTERING THERMOMETERS.				HYGROMETER.				†RAIN.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			WEATHER.		GENERAL REMARKS. Occurrence of Snow, Hail, Thunder, Lightning, Fog, Gales, Meteors, Auroras, Remarkable Depression or Elevation of Barometer, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Date.		
	9 A.M.		9 P.M.		Screen.		Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	9 A.M.		3 P.M.			Amount at 9 A.M.	9 A.M.		9 P.M.		Anemometer. 9 A.M.	9 A.M.			9 P.M.		9 A.M.					At 9 A.M.	At 9 P.M.
	Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. 9 A.M.	Min. 9 A.M.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force. Scale of 0-12.	Direction.	Force. Scale of 0-12.		Species and Direction.	Amount (0-10).		Species and Direction.	Amount (0-10).	3 ins.	12 ins.	48 ins.				
1	28.850	32			47	41	104	38	45	44	46	42	72	W	3				10							O	Bc	925 Mydall clear after Evg R	1		
2	28.750	31			47	29	97	29	38	37	44	41	68	SW	1				4							Bc	R	10 Mydall clear after Evg R	2		
3	28.500	38			46	31	100	28	38	36	42	44						1							Bc	Bc	clear of air	3			
4	28.600	37			45	23	89	19	30	29	42	40	23	W	1				0							B	Bc	10 Mydall clear after Evg R	4		
5	28.300	37			46	23	80	20	36	34	46	41	15	E	8				10							OP	OP	Dull & Showery.	5		
6	28.750	34			44	29	87	24	36	35	42	40	73	SW	8				4							Bc	O	clear of air Evg O R night	6		
7	28.350	34			46	29	86	25	31	30	44	43						0							B	Bc	clear of air Evg Dull	7			
8	28.450	30			42	21	80	19	33	30	40	37	35	W	1				0							B	Bc	10 Mydall clear after Evg R	8		
9	28.100	33			40	34	78	31	36	34	37	37	27	SE	1				10							OS	Bc	My Showery clear after Evg R	9		
10	28.150	36			41	23	80	20	35	32	37	32	43	SE	1				10							O	P	Mydall clear after Evg R	10		
11	27.650	37			39	34	76	31	36	35	37	37	33	E	1				10							R	O	Mydall clear after Evg R	11		
12	28.200	39			45	31	91	29	35	34	44	42	30	SW	4				6							Bc	Bc	clear of air Evg O R	12		
13	28.500	40			46	38	88	35	39	37	43	41	23	W	4				10							O	R	Mydall clear after Evg R	13		
14	28.450	40			42	40	83	37	40	39	41	40	48	W	1				10							OS	R	Mydall clear after Evg R	14		
15	28.500	40			45	29	87	26	37	36	44	43	68	E	6				10							OR	R	Dull & R throughout	15		
16	28.500	41			44	36	81	34	41	39	43	41	75	SW	1				8							O	Bc	Mydall clear after Evg R	16		
17	28.450	43			48	40	86	37	40	39	46	42	43	W	1				8							Bc	R	Mydall clear after Evg R	17		
18	28.350	44			47	40	81	38	45	44	49	44	100	E	6				10							OP	R	Dull & R throughout	18		
19	28.200	43			46	38	78	36	40	38	44	41	82	E	2				6							Bc	Bc	clear fair	19		
20	28.750	38			46	38	78	36	40	38	44	41	82	E	2				10							O	Bc	Mydall clear after Evg R	20		
21	28.200	35			44	29	77	36	33	30	43	42						0							B	Bc	clear fair	21			
22	28.500	36			48	30	100	27	34	32	46	42						3								Bc	Bc	10 Mydall clear after Evg R	22		
23	28.750	35			47	23	90	22	31	30	46	40	73	W	1				0							B	Bc	10 Mydall clear after Evg R	23		
24	28.000	40			46	36	83	30	38	37	43	41	78	SE	1				10							O	P	Mydall clear after Evg R	24		
25	28.150	32			46	30	71	27	34	31	44	41						0								B	Bc	10 Mydall clear after Evg R	25		
26	28.500	37			40	28	86	25	31	32	38	37						10								O	Bc	Mydall clear after Evg R	26		
27	28.800	37			43	30	80	26	37	36	41	40	82	W	2				10							O	Bc	Mydall clear after Evg R	27		
28	28.750	40			44	37	84	34	40	38	42	40	16	SW	1				10							O	P	Mydall clear after Evg R	28		
29	28.850	36			45	31	86	28	34	33	43	41	19	W	1				10							O	P	Mydall clear after Evg R	29		
30	28.750	41			45	35	62	33	40	39	44	41	03	W	1				4							Bc	Bc	clear fair	30		
31	28.950	41			46	33	74	29	43	41	45	42						10								O	Bc	clear fair	31		
Sums.	13 810	237			150	59			222	72	102	81	701						209												
Means.	28.445	37.6			44.8	31.9			37.2	35.6	43.3	41.0			23				6.7												
Instrumental Errors.	+1.00								-4	-5	-4	-5																			
Corrected Means.	28.545								36.8	35.1	42.9	40.5																			

WEATHER NOTATION.

a. denotes aurora.

b. blue sky, cloudless.

bc. blue sky with detached clouds.

c. sky mainly cloudy, but with openings between the clouds.

d. completely overcast.

o. drizzling rain.

e. wet air, without rain falling.

f. fog.

fe. wet fog.

g. gloomy.

h. hail.

l. lightning.

lu. co. lunar corona.

lu. ha. lunar halo.

m. denotes mist.

p. passing showers.

q. squally.

r. continuous rain.

s. snow.

so. ha. solar halo.

t. thunder.

t. s. thunder-storm.

u. ugly, threatening appearance.

v. unusual visibility of distant objects.

w. dew.

x. hoar frost.

z. dust haze.

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).

FORCE.

0 Calm.

1 Light Air.

2 Slight Breeze.

3 Gentle Breeze.

4 Moderate Breeze.

5 Fresh Breeze.

6 Strong Breeze.

7 High Wind.

8 Gale.

9 Strong Gale.

10 Whole Gale.

11 Storm.

12 Hurricane.

WEATHER NOTATION.											
a.	denotes aurora.	m.	denotes mist.	p.	denotes passing showers.	q.	denotes squally.	r.	denotes continuous rain.	s.	denotes snow.
b.	blue sky, cloudless.	p.	denotes passing showers.	q.	denotes squally.	r.	denotes continuous rain.	s.	denotes snow.	so. ha.	denotes solar halo.
bc.	blue sky with detached clouds.	q.	denotes squally.	r.	denotes continuous rain.	s.	denotes snow.	so. ha.	denotes solar halo.	t.	denotes thunder.
c.	sky mainly cloudy, but with openings between the clouds.	r.	denotes continuous rain.	s.	denotes snow.	so. ha.	denotes solar halo.	t.	denotes thunder.	t. s.	denotes thunder-storm.
d.	completely overcast.	s.	denotes snow.	so. ha.	denotes solar halo.	t.	denotes thunder.	t. s.	denotes thunder-storm.	u.	denotes ugly, threatening appearance.
e.	drizzling rain.	so. ha.	denotes solar halo.	t.	denotes thunder.	t. s.	denotes thunder-storm.	u.	denotes ugly, threatening appearance.	v.	denotes unusual visibility of distant objects.
f.	wet air, without rain falling.	t.	denotes thunder.	t. s.	denotes thunder-storm.	u.	denotes ugly, threatening appearance.	v.	denotes unusual visibility of distant objects.	w.	denotes dew.
fe.	fog.	t. s.	denotes thunder-storm.	u.	denotes ugly, threatening appearance.	v.	denotes unusual visibility of distant objects.	w.	denotes dew.	x.	denotes hoar frost.
g.	wet fog.	u.	denotes ugly, threatening appearance.	v.	denotes unusual visibility of distant objects.	w.	denotes dew.	x.	denotes hoar frost.	z.	denotes dust haze.
h.	gloomy.	v.	denotes unusual visibility of distant objects.	w.	denotes dew.	x.	denotes hoar frost.	z.	denotes dust haze.		
i.	hail.	w.	denotes dew.	x.	denotes hoar frost.	z.	denotes dust haze.				
l.	lightning.	x.	denotes hoar frost.	z.	denotes dust haze.						
lu. co.	lunar corona.	z.	denotes dust haze.								
lu. ha.	lunar halo.										

BEAUFORT SCALE FOR ESTIMATING FORCE OF WIND—(0-12).											
Force.	0	1	2	3	4	5	6	7	8	9	10
Force.	0	1	2	3	4	5	6	7	8	9	10
Force.	0	1	2	3	4	5	6	7	8	9	10

BAROMETER.	
Corrected Mean at 9 A.M., minus Correction for Temp.	28.522
Corrected Mean at 9 P.M., minus Correction for Temp.	
Mean at Station, corrected, and at 32°,	28.562
Correction for height, feet above Mean Sea Level, ...	+ 1.047
Mean, reduced to 32°, and Sea Level,	29.509
Highest Reading, corrected for Index error, on th,	
Lowest Do. Do., on th,	
Difference, or Monthly Range,	

SELF-REGISTERING THERMOMETERS.	
Highest in Month, on 1 th, 12,	49
Lowest in Month, on 8 th,	21
Difference, or Monthly Range,	28
Mean of all the Highest,	46.8
Mean of all the Lowest,	31.9
Difference, or Mean Daily Range,	12.9
Mean Temperature of Month, 1/2 (Mean Max. + Mean Min.), ...	38.4
Min. on Grass, Lowest in Month,	
" " Mean,	
Black Bulb, Max. in Sun, Highest in Month,	

HYGROMETER.	
Dry Bulb, Mean of A.M. and P.M. Readings,	36.8
Wet Bulb, Mean of A.M. and P.M. Readings,	35.1
Computed Temperature of Dew-Point,	
Do. Elastic Force of Vapour,	186
Do. Relative Humidity (Saturation = 100), ...	86
RAIN fell on 22 Days; Amount in Inches,	7.01

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Caln or Variable.	Mean Force 0-12.	
A.M.			5	3	2	6	12	3			
P.M.											
Sum.	0	0	10	6	4	12	24	6	0	2.3	

WEATHER SUMMARY.	
Number of Days of Precipitation, ...	22
Snow,	4
Hail,	0
Thunder,	0
Clear Sky,	7
Overcast,	16
Fog,	0
Ground Frost,	19
Gale,	4

INSTRUMENTS IN USE.	
Barometer, No. 1838	
Dry Bulb, No. 578	
Wet Bulb, No. 578	
Maximum, No. 67067	
Minimum, No. 66928	
Solar Radiation, No. 10687	
Grass Min., No. 854	
Sun Recorder, No.	
1-foot Therm., No.	
4-foot Therm., No.	

Observations made and Return verified by John MacLennan
(Signed) John MacLennan

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Palmer