SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of January 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 A.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 A.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	28.800	38			55	35	90	32	38	37			·64	W	4					10									My dull Afternoon P Evg O	1
2	28.700	49			56	41	104	38	51	50			·04	NNW	8					10									clear & fair P Evg P.	2 g
3	28.900	45			53	37	90	35	51	48			—	W	10					10.									clear & fair P².	3 g
4	29.150	38		X	50	29	100	26	34	33			—	W	0					3									clear & fair.	4
5	29.100	42			56	38	94	35	45	43			—	WNW	1					10									clear & fair.	5
6	29.260	34			53	31	100	28	40	38			—	SW	1					10									My dull clear after.	6
7	29.150	35		X	54	29	90	26	36	34			—	W	1					4									clear & fair.	7
8	28.750	45			48	34	84	31	45	44			·42	NW	1					10									My dull Afternoon R Evg H. l 6 to 9 Pm	8 L. △
9	28.200	40		X	42	36	90	35	42	40			·33	NNW	6					10									& Dull & Showery l 6 to 8 Pm.	9 L. g
10	28.350	35			41	33	63	28	39	38			·75	W	1					6							C.	S.C.	⊠ Dull & Showery. Evg * l 6 to 7 Pm.	10 *. L.
11	28.250	33			40.	28.	60	24.	30	29			·04	SW	1					8.							O	B.C.S	⊠² Dull & Sn Showers.	11 *
12	28.200	29			40	20	64	18.	30	29			·02	W	1					4							Bc.	B.Bc.O.	⊠² My clear Dull after P Evg O.	12 g.
13	28.850	35			42	21	61	18	32	30			·04	W	3					8							O	Bc.O	⊠ My dull.. clear after. Evg O. P.	13
14	28.500	38			44	28	60	25	34	33			·03	SW	1					4							Bc	A.C	⊠ Fresh, My clear. Afternoon P. l. 6 to 7 Pm.	14 L.
15	28.800	36			42	22	62	20	24	23.			·18	W	1					0							B	C.B.	⊠° My clear afternoon Dull & P Evg R.	15
16	28.300	38			44	31	90	27	32	31			·23	SW	1					10							O.P.	B.S.	⊠° My dull & Showery. Afternoon clear. t* l 6 to 8 Pm	16 *R
17	28.050	35			40	33	64	30	34	32			·24	W	1					10							O	B.S.	⊠ My dull. clear after. Evg * ⚡.	17 *
18	28.000	28.			42	32	66	29	36	34			—	SW	2					8							B.	O S	⊠ My clear. Afternoon dull. ** ⚡.	18 *
19	27.900	33			41	28	60	25.	32	31			·04	NW	1					10							O	R.S.	⊠ My dull clear after. Evg * P	19 *. g
20	28.400	32			42	27	63	25	30	29			·06	N	8					10							O.S.	S.	⊠. ⚡ P * Stormy	20 g. *
21	28.600	29			34	11	62	9	20	19			·32	SW	2					8							Bc.	N.S.	⊠ My clear afternoon *. ⚡ P	21 *. g.
22	28.750	28.		?	38.	13.	64	10.	21	20.			—	W	1					4.							Bc.	BC	⊠ ⚡ clear & fair. Evg Frosty	22
23	28.700	20		X	35	8	80	5.	11	10			·13	W	1					2							Bc	O.S.	⊠. My clear. Afternoon dull & *	23 *
24	27.900	26			40	22	66	20	25	24			·32	NW	2					10							Bc	S	⊠ My clear Afternoon *	24 *
25	28.300	28			38	20	64	18.	22	20			—	W	1					8							C	Bc	⊠ clear & fair Evg Frosty,	25
26	28.100	14		X	26	0	66	~~-05~~	10	8			·08	SW	1					0							B	Bc	⊠ clear & fair Evg *	26 *
27	28.050	17			30	0	60	~~-05~~	15	14			—	W	2					8							Bc	Bc	⊠ clear & fair Evg Frosty. comet. 6.15 Pm	27
28	28.000	5			36	-10	62	-14	10	7			·82	W	1					0							B	S	⊠ clear & fair Evg P² ⚡² *² comet 6.22 Pm	28 *. g
29	28.150	30			41	14	60	10	30	28			·05	SW	4					4							Bc	S	⊠ My ~~clear~~ Afternoon *. ⚡. comet 6.50 Pm	29 *
30	28.550	31			44	22	80	20	25	24			t	SW	3					6							Bc	O	⊠ My clear Afternoon dull. comet 6.15 Pm	30
31	28.500	35			42	34	100	30	42	40			—	W	1					5							Bc.	Bc.O	⊠ Fresh. clear & fair Evg O	31
Sums.	136 / 15.210	16 / 81			9 / 84	10 / 147			8 / 37	13 / 360			8 / 4.20		72					210										
Means.	28.491	32.6			? 42.7	24.7			31.2	29.7			✓		2.3					6.8										
Instrumental Errors.	+.060					✓				1.5																				
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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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. — 10 } 28.481

Corrected Mean at 9 P.M., *minus* Correction for Temp. — } ____

Mean at Station, corrected, and at 32°, 28.561

Correction for height, feet above Mean Sea Level, + 1.038

Mean, reduced to 32°, and Sea Level, 29.579

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, 56.

Lowest in Month, on 28 th, -10

Difference, or **Monthly Range,** 66°

Mean of all the Highest, ? 42.7

Mean of all the Lowest, 24.7

Difference, or **Mean Daily Range,** 18.0

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), 33.7

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, 31.2

Wet Bulb, Mean of A.M. and P.M. Readings, 29.7

Computed **Temperature of Dew-Point,**

Do. **Elastic Force of Vapour,** ·139

Do. **Relative Humidity** (Saturation = 100), 79

RAIN fell on 20 **Days; Amount in Inches,** 4.20

WIND. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	3					9	16	3		
P.M.										
Sum.	6	0	0	0	0	18	32	6	0	2.3

* 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,	20
Snow,	13
Hail,	1
Thunder,	1
Clear Sky,	3
Overcast,	12
Fog,	0
Ground Frost,	25
Gale,	7
	S.W. 6

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 Lowe

(*Signed*) J M Lowe

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of February 1910.

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 9 A.M.	Attached Thermometer 9 A.M.	Barometer 9 P.M.	Attached Thermometer 9 P.M.	*Self-Registering Thermometers: Screen Max. 9 P.M.	Screen Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	Hygrometer: Dry bulb 9 A.M.	Wet bulb 9 A.M.	Dry bulb 9 P.M.	Wet bulb 9 P.M.	†Rain. Amount at 9 A.M.	Wind: Direction 9 A.M.	Force. Scale of 0—12. 9 A.M.	Direction 9 P.M.	Force. Scale of 0—12. 9 P.M.	Anemometer. 9 A.M.	Clouds: Species and Direction 9 A.M.	Amount (0—10). 9 A.M.	Species and Direction 9 P.M.	Amount (0—10). 9 P.M.	Sunshine. Hours.	Thermometers under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	Weather: At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	28.550	34			40	35	90	32	36	34			—	W	1					4							B	Bc	☒ Fresh Clear & fair	1
2	28.200	37			43	35	68	33	36	35			—	SW	1					10							O.	Bc.O.	☒ Fresh Mg dull Clear after Evg O.	2
3	28.100	33			42	28	84	25	31	30			—	NW	2					10							O	Bc.	☒ Mg dull Clear after.	3
4	28.462	31			45	23	92	18	26	25			.03	W	1					0							Bc	Bc	☒ Clear & fair Evg P.	4
5	28.400	38			43	20	100	17	34	33			—	N	3					10							O	Bc	☒ Mg dull Clear after.	5
6	28.450	39			42	34	90	31	40	38			—	W	4					8							C	Bc	☒ Clear & fair.	6
7	28.200	36			40	28	90	25	38	36			.08	SW	1					6							O	S	☒ Mg dull * after.	7 *
8	28.520	32			37	27	100	25	30	28			—	W	1					6							C	Bc	☒ Mg dull Clear after.	8
9	28.950	26			41	9	90	5	20	19			.08	W	1					0							Bc	Bc	☒ Clear & fair. Evg P	9
10	28.650	38			43	33	94	30	36	35			—	SW	1					10							O	Bc	☒ Fresh Mg dull Clear after	10
11	28.600	36		?	39	32	120	30	33	31			—	W	1					0							Bc	Bc	☒ Clear & fair	11
12	28.700	32			45	24	98	21	34	33			—	W	1					0							Bc	O	☒ Mg clear Dull after.	12
13	28.550	38			44	32	98	30	40	39			.22	SW	1					10							O	Bc	☒ Mg dull Clear after. Evg P *	13 g.*
14	28.350	37			40	33	94	30	38	37			.05	W	1					0							Bc	Bc	☒ Clear & fair. Evg P *	14 g.*
15	27.750	33			45	18	96	14	32	30			—	NW	2					6							Bc	Bc	☒ Clear & fair.	15
16	27.950	33			40	23	98	20	34	33			.24	W	1					8							Bc	Bc	☒ Clear & fair. Evg P². P.	16 g².
17	27.350	35			45	33	90	29	34	36			.22	E	1					10							P.H.	P.	11 am ☒ Dull & P. & H throughout	17 △.
18	27.500	38			40	36	120	34	40	39			.18	E	3					10							O	Bc	Mg dull Clear after. P at night.	18
19	27.900	37			42	30	90	27	38	37			.89	E	4					10							O	R.	Dull & r throughout H.	19 △
20	27.750	39			45	36	98	34	39	38			.85	N	1					10							C	R	9 pm. Mg dull Afternoon P. Evg R.	20
21	27.700	37			43	30	96	27	38	36			—	W	4					7							Bc	B	Clear & fair	21
22	28.430	37			48	33	120	29	39	38			.19	W	4					3							Bc	Bc	Clear & fair Evg *	22 *
23	28.550	38			40	24	100	22	36	34			—	W	1					4							Bc	Bc	☒° Clear & fair.	23
24	28.300	34			42	27	90	24	31	30			—	E	2					10							O	Bc	☒° Mg dull Afternoon Clear	24
25	28.400	30			40	16	110	12	28	27			—	W	1					0							B	Bc	☒° Mg dull Clear after. Evg *	25 *
26	28.200	28			43	18	95	15	24	23			.12	SW	1					10							O	Bc.S	☒ Clear. & fair Evg *	26 *
27	28.650	34			44	24	90	21	32	30			.04	W	1					0							B	Bc	☒ Clear & fair Evg *	27 *
28	28.400	34			44	14	95	12	32	30			—	E	1					10							O	Bc	☒ Mg dull Clear after	28
29																														29
30																														30
31																														31
Sums.	47 / 7.732	15 / 134			8 / 655	12 / 195			12 / 112	13 / 74			6 / 3.19		47					172										
Means.	28.276	34.8			42.3	27.0			34.0	32.6			✓		17					6.1										
Instrumental Errors.	+060				✓	✓			·168																					
Corrected Means.	336								85																					

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. — 15 ... 28.321

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

Mean at Station, corrected, and at 32°, ... 28.321

Correction for height, feet above Mean Sea Level, ... + 1.028

Mean, reduced to 32°, and Sea Level, ... 29.349

Highest Reading, corrected for Index error, on th, ...

Lowest Do. Do., on th, ...

Difference, or **Monthly Range,** ...

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 22 th, ... 48

Lowest in Month, on 9 th, ... 9

Difference, or **Monthly Range,** ... 39

Mean of all the Highest, ... 42.3

Mean of all the Lowest, ... 27.0

Difference, or **Mean Daily Range,** ... 15.3

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 34.7

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, ... 34.0

Wet Bulb, Mean of A.M. and P.M. Readings, ... 32.6

Computed **Temperature of Dew-Point,** ...

Do. **Elastic Force of Vapour,** ... ·168

Do. **Relative Humidity** (Saturation = 100), ... 85%

RAIN fell on 14 **Days; Amount in Inches,** 3.19

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	2		5			5	14	2		
P.M.										
Sum.	4	0	10	0	0	10	28	4	0	1.7

* 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, ...	
Snow, ...	7
Hail, ...	2
Thunder, ...	0
Clear Sky, ...	7
Overcast, ...	12
Fog, ...	0
Ground Frost, ...	23
Gale, ...	3
	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 McGroup

(*Signed*) J. McGroup

1.053
20

THE SECRETARY

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122 GEORGE STREET

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SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of March 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.	
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°						
1	28.700	32			47	22	94	18	32	30			·53	W	1					4							Bc	Bc	Clear & fair Evg R.	1	
2	28.500	39			48	36	92	32	40	38			·01	SE	1					10							O	Bc	Mg Showery Clear aftr	2	
3	28.850	43			46	43	91	40	42	40			—	W	6					8							Bc	Bc	♀ clear & fair ♀	3	g
4	28.950	44			44	32	90	28	42	40			—	E	1					10							O	U	Dull & Hazy Evg O.	4	
5	28.900	37			43	36	95	33	36	35			—	E	4					10							O	Bc	Mg Hazy Clear after	5	
6	28.950	38			46	39	110	36	37	36			—	W	2					8							O	Bc	Mg dull Clear after	6	
7	28.800	42			46	36	100	33	38	35			·12	W	1					9							O	Bc	Mg dull Clear after Evg P.	7	
8	28.700	40			49	35	120	33	42	38			·10	W	3					0							B	Bc	Clear & fair Evg P.	8	
9	28.462	43			47	37	110	34	40	39			·55	SW	1					10							O	Bc	Mg dull Clear after. Evg R.	9	
10	28.150	40			41	36	90	32	42	40			·42	E	1					10							S	R	Mg * Afternn R.	10	*
11	28.860	38			43	36	98	34	38	37			·04	W	3					10							Bc	Bc.S	Clear & fair * at night	11	*
12	29.012	36			43	31	90	28	35	34			·06	W	1					8							Bc	BcS	☒° Clear & fair. Evg *	12	*
13	28.900	37			43	24	100	21	34	32			—	SW	1					8							Bc	Bc.	☒ Clear & fair.	13	
14	28.800	37			42	31	85	28	36	34			—	NW	10					10							Bc	Bc	♀² Clear & fair	14	g.
15	28.950	33			46	24	88	21	34	33			—	NW	8					6							Bc	Bc	♀ Clear & fair Evg ♀²	15	g
16	28.550	43			50	37	120	34	38	37			·75	E	8					10							Bc	Bc	♀² Clear & fair ♀² Evg R.	16	g
17	28.600	38			40	34	90	32	36	33			·30	W	1					8							C	S.	Dull & In Showers.	17	*
18	28.750	34			41	26	91	23	33	32			·10	W	1					8							S	S	☒ ♀ ♀ * Stormy	18	* g.
19	28.900	36			48	33	120	30	35	33			—	SW	2					4							Bc	Bc	☒ Clear & fair.	19	
20	28.900	40			49	34	128	30	42	41			·11	NW	3					8							C	Bc	Mg dull Clear aftr Evg P.	20	
21	29.000	43			45	37	120	34	40	37			—	W	1					2							Bc	Bc	Clear & fair	21	
22	29.250	40			50	33	110	29	43	41			—	SW	1					6							Bc	Bc.	Clear & fair	22	
23	29.300	42			50	37	121	34	45	40			—	W	1					6							Bc	Bc	Bright Sunshine	23	
24	29.300	40			51	29	120	26	38	37			—	W	1					0							B	Bc	Clear & fair.	24	
25	29.320	35			47	36	100	34	39	38			—	SW	2					10							O	O	Dull & Hazy	25	
26	29.200	41			50	33	108	28	44	43			—	W	1					4							Bc	Bc	♀ Clear & fair	26	
27	28.950	42			51	40	125	36	43	41			—	W	1					10							O	Bc	Mg dull Clear after ♓	27	A
28	29.320	36			47	25	100	22	40	39			—	W	2					3							Bc	Bc	Clear & fair ♓	28	A
29	29.400	37			55	28	120	21	45	41			—	SW	1					2							Bc	Bc	Clear & fair Evg Frosty	29	
30	29.400	37			53	28	115	26	41	39			—	W	1					4							Bc	Bc	Clear & fair Evg Frosty	30	
31	29.500	40			52	27	118	25	40	36			—	SW	1					4							Bc	Bc	Clear & fair Evg O.	31	
Sums.	115 / 29.894	12 / 273			13 / 213	15 / 85		10	11 / 279	13 / 224			2 / 2.49		72					210												
Means.	29.939 / 29.939	38.8			46.9	32.7			39.0	37.1			✓		2.3					6.8												
Instrumental Errors.	+.060																															
Corrected Means.	.999																															

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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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. — 26 — 28.973

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

Mean at Station, corrected, and at 32°, 28.973

Correction for height, feet above Mean Sea Level, + 1.023

Mean, reduced to 32°, and Sea Level, 29.996

Highest Reading, corrected for Index error, on th,

Lowest Do. Do., on th,

Difference, or **Monthly Range,**

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 29 th, 55.5

Lowest in Month, on 1 th, 22

Difference, or **Monthly Range,** 33

Mean of all the Highest, 46.9

Mean of all the Lowest, 32.7

Difference, or **Mean Daily Range,** 14.2

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), 39.8

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, 39.0

Wet Bulb, Mean of A.M. and P.M. Readings, 37.1

Computed **Temperature of Dew-Point,**

Do. **Elastic Force of Vapour,** .201

Do. **Relative Humidity** (Saturation = 100), 85%

RAIN fell on 12 **Days; Amount in Inches,** 2.49

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.			4	1		7	16	3		
P.M.										
Sum.	0	0	8	2	0	14	32	6	0	2.3

* 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,	12
Snow,	5
Hail,	0
Thunder,	0
Clear Sky,	2
Overcast,	11
Fog,	0 ?
Ground Frost,	16
Gale,	5 6

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 McGroup

(Signed) J McGroup

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeen, During the MONTH of April 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	29.320	44			52	32	120	28	46	45			—	W	1					0							Bc	Bc	Bright Sunshine	1
2	29.200	38			46	30	103	27	38	37			·04	SSW	1					9							Bc.	Bc	clear of air Evg O * at night	2 *
3	28.800	40			43	34	90	32	39	37			·06	NW	2					10							O.P.	O	☒ Mg Showery afternoon dull	3
4	28.850	37			46	31	110	28	38	37			·10	N	1					10							O	BC.P.	Mg dull & clear after Evg P.	4
5	28.850	41			45	35	90	32	40	38			·33	N	4					10							O	O.S.	Dull & Showery.	5
6	29.000	41			43	38	93	36	41	40			—	E	2					10							O	Bc	Mg M clear after.	6
7	29.100	40			44	32	120	30	38	36			—	W	1					10							Bc	Bc	clear of air.	7
8	29.100	38			52	31	128	30	40	38			·03	SW	1					4							Bc	Bc	clear of air Evg O P.	8
9	28.950	43			50	34	126	31	38	37			·02	W	1					10							O	Bc	Mg Showery O. clear after	9
10	28.850	48			48	30	120	27	46	44			—	SSW	2					4							Bc	Bc	clear of air	10
11	28.550	46			47	40	110	38	45	43			—	W	3					10							O	Bc	Mg dull clear after	11
12	28.150	46			50	41	120	38	45	44			·84	W	1					10							O	Bc	Mg dull clear after Evg P *	12 *
13	28.050	40			48	34	90	32	38	37			·63	NW	1					10							O.S.	R	☒ Mg * Afternoon R	13 *
14	27.846	39			48	35	100	32	46	44			—	W	1					10							O	Bc	☒ Mg dull clear after.	14
15	28.250	37			43	31	90	27	36	34			—	N	2					10							O	Bc	Mg dull clear after.	15
16	28.500	38			41	23	91	20	36	33			·66	S	1					10							O.S.	S	Dull & Sn Showers.	16 *
17	28.700	39			43	34	80	32	38	36			·04	NE	1					10							O	O	☒ Dull throughout Evg P.	17
18	28.550	35			46	26	88	22	34	32			·15	E	3					10							O	O.P.	Mg dull afternoon Showery.	18
19	28.650	44			50	36	90	33	41	40			—	NW	8					4							Bc	Bc	f clear of air t 2 to 3 Pm.	19 g.T.
20	29.050	41			50	33	100	28	40	38			·06	W	2					8							Bc	P.Bc	Mg clear Midday Showery clear after 11 Am to 2 Pm	20
21	28.700	46			49	42	100	38	48	47			·03	W	8					8							Bc	Bc	f clear of air Evg P.	21 g.
22	28.950	40			45	31	110	29	35	33			—	W	3					8							C.	Bc	☒° clear of air.	22 *°
23	28.350	43			51	30	110	26	43	40			·02	NNW	6					8							C	Bc	Mg dull & P. Afternoon clear.	23
24	27.850	41			50	34	110	30	43	41			·08	W	1					10							O	Bc	Mg dull with H Showers, afternoon clear.	24 Δ
25	28.150	41			49	35	120	32	44	42			·02	SW	3					8							O	Bc	Mg Showery clear after.	25
26	28.350	40			50	29	110	24	40	38			·03	NW	8					7							Bc	P	f Mg clear afternoon Showery.	26 g.
27	28.700	40			46	28	100	24	42	41			—	W	3					8							Bc	Bc	clear of air.	27
28	28.400	43			45	31	103	26	40	39			·02	W	2					10							O	BcP	Mg dull clear after Evg P.	28
29	28.600	41			44	34	110	30	39	37			—	S	1					8							Bc	Bc	clear of air	29
30	29.000	40			60	35	108	32	39	38			—	W	1					10							O.	Bc	Mg dull clear after f	30 g.
31																														31
Sums.	149 / 19.446	11 / 30			11 / 225	9 / 89			14 / 16	14 / 266			6 / 3.16		75					254										
Means.	28.648	410			47.5	33.0			40.5	38.9			✓		2.5					8.5										
Instrumental Errors.	+050				✓	✓																								
Corrected Means.	28.708																													

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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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. —33 } 28.675

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

Mean at Station, corrected, and at 32°, 28.675

Correction for height, feet above Mean Sea Level, + 1.020

Mean, reduced to 32°, and Sea Level, 29.695

Highest Reading, corrected for Index error, on th,

Lowest Do. Do., on th,

Difference, or **Monthly Range,**

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 30 th, 60

Lowest in Month, on 16th, 23

Difference, or **Monthly Range,** 37

Mean of all the Highest, 47.5

Mean of all the Lowest, 33.0

Difference, or **Mean Daily Range,** 14.5

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), 40.3

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, 40.5

Wet Bulb, Mean of A.M. and P.M. Readings, 38.9

Computed **Temperature of Dew-Point,**

Do. **Elastic Force of Vapour,** ·219

Do. **Relative Humidity** (Saturation = 100), 87%

RAIN fell on 18 **Days; Amount in Inches,** 3.16

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	4	1	2		4	2	13	4		
P.M.										
Sum.	8	2	4	0	8	4	26	8	0	2.5

* 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,	18
Snow,	5
Hail,	1
Thunder,	1
Clear Sky,	1
Overcast,	18
Fog,	1?
Ground Frost,	17
Gale,	4

INSTRUMENTS IN USE.

Barometer, No.	1758
Dry Bulb, No.	578
Wet Bulb, No.	578
Maximum, No.	69067
Minimum, No.	66929
Solar Radiation, No.	
Grass Min., No.	854
Sun Recorder, No.	
1-foot Therm., No.	
4-foot Therm., No.	

Observations made and Return verified by John M Troup

(*Signed*) J M Troup

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of May 1910.

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 9 A.M. (inches.)	Attached Thermometer 9 A.M. (°)	Barometer 9 P.M. (inches.)	Attached Thermometer 9 P.M. (°)	*Self-Registering Thermometers. Screen. Max. 9 P.M. (°)	Screen. Min. 9 P.M. (°)	Black Bulb Max. in Sun. 9 P.M. (°)	Min. on Grass. 9 A.M. (°)	Hygrometer. 9 A.M. Dry bulb. (°)	9 A.M. Wet bulb. (°)	9 P.M. Dry bulb. (°)	9 P.M. Wet bulb. (°)	†Rain. Amount at 9 A.M. (inches.)	Wind. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	Clouds. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	Sunshine. Hours.	Thermometers under Ground. 9 A.M. 3 ins. (°)	12 ins. (°)	48 ins. (°)	Weather. At 9 A.M.	At 9 P.M.	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.
1	29·200	50			64	40	110	36	48	47			—	W	1					6							Bc	Bc	Clear & fair.	1
2	29·050	48			58	40	120	38	45	44			·03	NW	1					8							B.	PBc	Mg clear Midday showery clear after	2
3	28·800	44			56	28	121	24	46	43			—	W	1					10							Bc	Bc	clear & fair.	3
4	28·700	42			50	32	100	27	44	43			·03	NW	4					8							Bc	BcP	clear & fair Evg P.	4
5	28·300	46			51	34	120	30	40	39			·02	W	5					8							Bc	P	Mg clear Afternoon Sn showers.	5
6	28·050	42			51	29	100	26	42	40			·12	SW	2					6							Bc	BcP	Clear & fair Evg Showery.	6
7	28·150	46			46	34	90	31	42	40			·18	W	4					10							OP	OP	Dull & Showery.	7
8	28·450	40			46	31	115	27	43	41			·03	N	3					10							OP	Bc	Mg dull & Showery clear after.	8
9	28·750	40			54	25	123	21	43	42			—	S	1					8							Bc	B.	clear & fair.	9
10	28·800	42			53	27	115	22	46	44			—	W	1					3							B	Bc	clear & fair.	10
11	29·150	45			57	27	124	24	50	45			·04	W	2					0							B.	BcR	clear & fair & at night	11
12	29·050	45			52	34	90	30	47	46			·22	NE	4					10							OP	P.	Dull & Showery. (Cuckoo first Heard)	12
13	28·950	50			50	44	96	42	49	48			·02	E	2					10							Om	H	Dull & hazy.	13
14	29·050	48			64	42	130	38	49	47			—	W	1					8							Bc	B.t	Bright Sunshine. t. 4·15 Pm.	14
15	28·920	55			61	52	132	49	54	52			·04	W	2					6							Bc	P.t	Mg clear afternoon Showery. t 4·20 Pm.	15
16	28·950	51			63	40	135	36	48	47			—	SW	1					0							Bc	Bc	Bright Sunshine.	16
17	29·000	50			65	39	103	37	46	45			—	W	1					10							OH	Bc	Mg dull & hazy clear after.	17
18	28·800	48			50	42	110	40	45	43			·15	SW	1					10							OH	H.r.	Dull & hazy Evg R.	18
19	28·850	50			65	42	120	41	48	47			·08	NE	2					6							Bc	OP.	Mg clear dull after Evg P. (Swallow first seen)	19
20	29·000	50			63	44	100	42	50	47			·09	SW	3					8							O	O	Dull but fair. t 7 & 12 Pm.	20
21	29·100	55			62	46	114	42	53	51			—	SE	1					10							Cm	Bc	Mg dull & hazy. clear after. t. 9 to 11 am t. 7 to 8 Pm	21
22	29·100	48			70	48	133	46	50	49			—	W	1					0							Bc	B	Bright Sunshine.	22
23	29·200	57			56	50	96	48	55	50			—	NE	2					8							Bc	Bc	clear & fair.	23
24	29·300	52			64	47	130	45	48	47			—	NE	0					10							O	Bc.	Mg dull clear after.	24
25	29·300	53			71	35	132	32	45	43			—	W	0					0							Bc	Bc	Bright Sunshine.	25
26	29·100	57			68	43	130	40	49	47			—	NE	1					10							O	Bc	Mg dull clear after.	26
27	29·050	50			64	55	100	50	58	57			—	W	1					4							Bc	Bc	clear & fair.	27
28	28·700	55			61	52	120	48	53	52			—	SW	1					10							O	Bc.	Mg dull. clear after. 4·20 Pm.	28
29	28·600	48			59	30	120	28	48	45			—	W	1					10							O	Bc	Mg dull clear after. 6·45 Pm.	29
30	28·200	49			52	40	115	35	48	46			—	NW	8					7							Bc	Bc	Mg clear & fair Mg	30
31	28·150	48			54	41	120	38	48	45			·16	W	2					6							Bc	BcR.	Clear & fair. Evg P.	31
Sums.	1·16 25·77	11 258			11 250	11 285			16 40	14 182			6 1·21		60				220 7·1											
Means.	28·831	483			58·4	39·2			47·7	45·9			✓		1·9				✓											
Instrumental Errors.	+0·060					✓				−1·0 44·9																				
Corrected Means.	28·891								2·8 ·266	/81																				

* 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 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.		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. —..... 28·840.

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

Mean at Station, corrected, and at 32°, ... 28·840.

Correction for height, feet above Mean Sea Level,... + 1·005.

Mean, reduced to 32°, and Sea Level,..... 29·845.

Highest Reading, corrected for Index error, on th,.....

Lowest Do. Do., on th,.....

Difference, or **Monthly Range,** .....

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 25th, ... 71

Lowest in Month, on 9 th, ... 25

Difference, or **Monthly Range,**..... 46

Mean of all the Highest, ... 58·4

Mean of all the Lowest, ... 39·2

Difference, or **Mean Daily Range,** ..... 18·9

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 48·7

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, ... 47·7

Wet Bulb, Mean of A.M. and P.M. Readings, ... 45·9

Computed **Temperature of Dew-Point,**.....

Do. **Elastic Force of Vapour,** ..... ·266

Do. **Relative Humidity** (Saturation = 100),... 81%

RAIN fell on 14 **Days; Amount in Inches,** 1·21

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	1	5	1	1	1	5	4	3		
P.M.										
Sum.	2	10	2	2	2	10	8	6	0	1·9

WEATHER SUMMARY.

Number of Days of Precipitation, ... 14
Snow, ... 1
Hail, ... 0
Thunder, ... 4
Clear Sky, ... 4
Overcast, ... 12
Fog, ... 4
Ground Frost, ... 10
Gale, ... 1

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. Troup

(Signed) J M Troup

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeen, During the MONTH of June 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	28.450	50			57	35	120	33	46	44			.65	W	1					0							Bc	P	Mg clear afternoon P.	1
2	28.700	49			63	34	121	29	50	48			—	S	2					0							B	Bc	Clear & fair	2
3	28.650	48			61	32	124	27	47	46			.01	W	1					8							Bc	BcP	Mn. clear & fair Evg P.	3
4	28.800	49			60	36	120	33	48	47			—	SSE	1					10							O	Bc	Mg dull clear after	4
5	29.000	50			58	33	115	31	49	47			—	SSE	4					8							O	Bc	Mg dull. Clear after.	5
6	29.250	50			58	42	120	40	52	50			—	E	1					4							Bc	Bc	Clear & fair.	6
7	29.250	50			70	34	118	32	50	49			.67	W	1					10							P	Bc	Mg Showery clear after.	7
8	28.184	50			73	36	130	33	56	54			—	W	1					3							Bc	Bc	Bright Sunshine.	8
9	28.950	57			70	38	122	35	58	56			—	SW	2					8							Bc	Bc	Clear & fair.	9
10	28.850	55			73	45	133	40	67	66			.03	S	3					8							Bc	OP	Mg clear. Afternoon dull & Showery. t 11 am to 3 30 pm.	10 T.
11	28.850	60		71	76	53	138	50	61	60			—	W	2					8							Bc	B.	Bright Sunshine	11
12	28.850	57		74	64	40	113	35	63	60			.10	SW	0					0							B	BcP.	Clear & fair Evg P.	12
13	28.900	54			62	42	110	40	55	53			.12	SE	3					4							Bc	BcP.	Mg clear & fair Evg P	13
14	28.900	42			61	42	110	36	52	48			.18	NE	3					10							Bc	BcP.	Clear & fair Evg P.	14
15	29.250	55			64	48	124	45	56	54			—	W	1					4							Bc	B.	Bright Sunshine	15
16	29.300	53			65	36	120	33	55	54			.02	SE	1					0							B	O	Mg Clear Afternoon dull & P.	16
17	29.300	54			73	42	134	38	60	59			—	S	4					3							Bc	Bc	Clear & fair.	17
18	29.250	52			74	32	136	28	58	56			—	W	2					2							B	Bc	Bright Sunshine.	18
19	29.250	58			56	48	100	45	50	49			—	E	3					10							OM	O.	Dull but fair M.	19
20	29.200	54			63	52	100	49	54	53			.07	W	1					10							OP.	Bc	Mg dull & P. Clear after.	20
21	28.800	50			60	50	102	48	57	55			.28	SE	4					10							Bc	R.	t. 9 to 10 am Mg clear afternoon R. to 2 to 4 30 Pm	21 T.
22	28.750	52		61	56	47	100	42	54	53			.04	W	1					0							Bc	OP.	t. 9 to 12 am Mg clear dull after t. 9 to 2 to 6 Pm.	22 Ry.
23	28.850	50			58	42	110	40	48	46			.05	W	1					10							OP.	BcP.	t. 9 to 12 am Mg dull & P. Mg day Clear. Afternoon P.	23 T
24	28.640	56			63	42	110	38	56	54			—	W	0					2							Bc	Bc	Clear & fair.	24
25	28.650	54			61	49	100	46	58	56			.04	SE	1					10							OBc	P.	Mg dull Clear after. Afternoon P.	25
26	28.600	53		59	64	42	113	38	56	54			.20	W	4					10							C	P	Mg dull Afternoon P.	26
27	28.400	50			53	40	115	39	47	44			—	W	2					10							O	Bc	Mg dull Clear after.	27
28	28.350	47			54	30	100	26	48	46			.05	SW	1					10							O	P.	Dull & Showery	28
29	28.450	50	10		60	42	110	40	50	49			—	W	4					8							Bc	Bc	Clear & fair.	29
30	28.400	52	95	52 ?	55	44	120	42	54	53			.10	NW	3					10							O	BcP.	Mg dull Clear after Evg P.	30
31																														31
Sums.	169	10			10	10			14	15			6																	
	26.03	61			95	28			115	60			1.41		58					193										
Means.	28.868	52.0			63.2	40.9			53.8	52.0			✓		1.9					6.4										
Instrumental Errors.	+0.60	✓				✓				-10																				
Corrected Means.	.928																													

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.		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. — 61 } 28.867

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

Mean at Station, corrected, and at 32°, 28.867

Correction for height, feet above Mean Sea Level, + 1.005

Mean, reduced to 32°, and Sea Level, 29.872 ✓

Highest Reading, corrected for Index error, on th,

Lowest Do. Do., on th,

Difference, or **Monthly Range,**

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 11 th, 76.

Lowest in Month, on 28th, 30.

Difference, or **Monthly Range,** 46.

Mean of all the Highest, 63.2

Mean of all the Lowest, 40.9

Difference, or **Mean Daily Range,** 22.3

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), 52.1

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, 53.8

Wet Bulb, Mean of A.M. and P.M. Readings, 51.0

Computed **Temperature of Dew-Point,**

Do. **Elastic Force of Vapour,** ~~.337~~

Do. **Relative Humidity** (Saturation = 100), ~~81~~

RAIN fell on 16 **Days; Amount in Inches,** 1.41

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.		1	2	4	5	3	14	1		
P.M.										
Sum.	0	2	4	8	10	6	28	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,	16
Snow,	0
Hail,	0
Thunder,	4
Clear Sky,	5
Overcast,	12
Fog,	1
Ground Frost,	4
Gale,	0
	10

INSTRUMENTS IN USE.

Barometer, No. 1758
Dry Bulb, No. 518
Wet Bulb, No. 518
Maximum, No. 67067
Minimum, No. 66439
Solar Radiation, No. 10677
Grass Min., No. 852
Sun Recorder, No.
1-foot Therm., No.
4-foot Therm., No.

Observations made and Return verified by John M. Troup

(Signed) J. M. Troup

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

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SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of July 1910.

Lat. 57 2 Long. 3 13W 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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	28.400	50			60	45	127	42	53	50			.15	NW	4					10							0	BcP	Mg dull Afternoon clear Evg P.	1
2	28.500	53			58	44	90	41	50	48			.35	N	1					9							0	R	Dull & r throughout	2
3	28.700	51		55	63	40	100	38	50	49			.03	NNW	2					10							0R	Bc	Mg dull & r clear after.	3
4	28.900	53			64	46	110	42	54	53			—	W	2					4							Bc	Bc	clear & fair	4
5	28.950	56			66	49	127	46	59	57			.43	NW	1					6							Bc	Bc	clear & fair Evg R.	5
6	28.750	55		55	60	51	100	48	53	52			.03	N	1					10							0P	Bc	Mg dull & showery clear after.	6
7	28.900	53			58	51	80	47	52	50			—	W	1					10							0	Bc	Dull but fair	7
8	29.100	48			60	44	126	42	50	45			—	N	6					0							Bc	Bc	clear & fair	8
9	29.100	52			63	40	124	36	55	49			—	W	2					0							Bc	Bc	Clear & fair	9
10	29.000	57		58	63	34	126	31	59	54			—	W	1					0							Bc	Bc	Bright Sunshine	10
11	29.000	55			75	31	132	29	50	45			—	SW	2					4							B	Bc	Bright Sunshine	11
12	29.100	58			75	40	139	38	65	63			—	SE	1					0							B	B	Bright Sunshine	12
13	29.150	58			80	40	148	37	69	64			—	E	0					0							B	Bc	Bright Sunshine	13
14	29.200	60			78	42	136	40	69	64			—	W	1					0							B	B	Bright Sunshine.	14
15	29.050	54		58	63	41	90	38	58	57			—	W	1					10							0	0	Dull but fair	15
16	29.050	50			57	46	91	43	50	49			—	SW	1					10							0	0	Dull but fair.	16
17	29.100	53			56	43	90	40	53	51			—	W	1					10							0	0	Dull but fair	17
18	29.100	52			58	43	110	41	47	46			—	S	1					10							0	Bc	Mg dull clear after.	18
19	28.950	53			59	43	100	43	54	53			—	SE	0					10							0	Bc	Mg dull clear after.	19
20	28.800	51			61	46	106	43	50	48			.05	W	1					8							0	BcP	Mg dull clear after Pat night.	20
21	28.350	52		55	59	46	100	44	56	54			.06	SW	1					10							0P	Bc	Mg dull & showery clear after.	21
22	28.400	51		51	56	45	94	42	51	50			.30	N	1					10							0	P	Mg dull Afternoon P. 6 40 8 m	22
23	28.750	51			53	46	91	42	53	49			.06	N	4					10							0P	Bc	f B.S on Mg dull 98 Afternoon clear	23
24	28.750	47			54	31	88	25	47	44			.61	SE	6					10							0	P	Dull & Showery.	24
25	28.300	50			62	44	87	41	50	49			.93	SE	1					10							R	P	Dull & r throughout	25
26	28.350	57			61	46	90	42	57	55			—	N	6					10							0	Bc	Dull but fair.	26
27	28.750	50			64	43	94	40	53	51			—	SW	1					10							Bc	Bc	clear & fair	27
28	28.700	60			65	41	112	35	61	60			.31	E	4					6							Bc	P	Mg clear afternoon P r at night	28
29	28.650	55			60	53	94	50	55	53			.38	SE	2					10							0	R	Mg dull afternoon R.	29
30	28.600	50			56	43	89	40	53	51			.14	W	1					8							0	P	Dull & Showery.	30
31	28.600	53			62	51	110	50	53	51			.25	E	1					10							Bc	BcP	clear & fair Evg P. t 530 15 6 8 m	31
Sums.	146	10			12	10			11	13			5							225										
	2500	100			69	110			129	64			4.08		58															
Means.	28.806	53.2			62.2	43.5			54.5	52.1					1.9					7.3										
Instrumental Errors.	+060				✓	✓			✓	✓ -10																				
Corrected Means.	866																													

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.		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. — .64 — 28.802

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

Mean at Station, corrected, and at 32°, ... .802

Correction for height, feet above Mean Sea Level, ... + .995

Mean, reduced to 32°, and Sea Level, ... 29.797

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, ... 80

Lowest in Month, on 11 th, 24 31

Difference, or **Monthly Range,** 49

Mean of all the Highest, ... 62.2

Mean of all the Lowest, ... 43.5

Difference, or **Mean Daily Range,** 18.7

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 52.9

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, ... 54.5

Wet Bulb, Mean of A.M. and P.M. Readings, ... 51.1

Computed **Temperature of Dew-Point,** .....

Do. **Elastic Force of Vapour,** ..... .332

Do. **Relative Humidity** (Saturation = 100), ... 78 %

RAIN fell on 15 **Days; Amount in Inches,** 4.08

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	6		3	5	1	4	10	2		
P.M.	✓		✓	✓						
Sum.	12	0	6	10	2	8	20	4	0	19

* 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, ... 0
Hail, ... 0
Thunder, ... 1
Clear Sky, ... 6
Overcast, ... 19
Fog, ... 0
Ground Frost, ... 2
Gale, ... 2 6

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) J. M. Group

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

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BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of August 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	28·750	54		X	69	42	131	40	58	57			—	W	1					3							Bc	B	Bright Sunshine	1
2	28·800	56			64	49	120	45	56	54			·62	W	1					10							Bc	PR	Mg clear Afternoon P Evg R	2
3	28·560	56		62	62	53	100	50	57	56			·08	SE	4					10							O	P	Dull & Showery	3
4	28·650	50			64	37	110	34	49	47			·04	W	1					10							O	P	Mg dull Afternoon Showery.	4
5	28·750	55		61	66	50	104	48	58	56			·06	SE	1					10							Bc	Bc	Clear & fair Evg P.	5
6	28·760	51		60	65	51	110	49	50	49			—	NNW	10					4							Bc	Bc	Mg clear & fair.	6
7	28·900	58		62	62	54	100	53	57	54			—	E	1					10							O	Bc	Mg dull clear after.	7
8	28·900	54			66	42	131	38	58	56			—	NW	4					0							Bc	Bc	Clear & fair.	8
9	29·000	53			68	40	136	36	61	54			—	NW	1					4							Bc	Bc	Mg hazy clear after.	9
10	29·100	48			68	41	130	37	49	47			—	NE	1					6							Bc	Bc	Clear & fair.	10
11	29·000	54			73	42	133	38	57	56			·16	SE	1					5							Bc	Bc	Clear & fair R at night.	11
12	28·800	54			72	54	136	52	56	55			—	S	1					8							Bc	Bc	Clear & fair.	12
13	28·900	56			72	46	130	40	58	56			—	NNE	1					6							Bc	Bc	Clear & fair	13
14	29·000	51		65	65	44	106	40	55	54			—	SSE	1					8							Bc	Bc	Clear & fair.	14
15	28·700	58			72	54	125	52	59	58			·25	E	8					10							Bc	Bc	Mg Showery clear after.	15
16	28·800	54			69	45	120	38	60	59			·05	W	3					10							Bc	Bc	Clear & fair R at night.	16
17	28·700	54			66	52	110	50	56	55			·07	S	3					10							P	Bc	Mg Showery clear after.	17
18	28·750	56			66	50	110	45	57	56			·31	W	1					4							Bc	BcR	Clear & fair R at night.	18
19	28·450	55			65	48	135	46	52	50			·02	SW	1					10							PBc	Bc	Mg Showery clear after	19
20	28·750	52			62	44	140	36	49	46			·28	W	1					4							Bc	BcR	Clear & fair R at night.	20
21	28·650	53			63	51	100	49	52	51			·03	N	1					10							PBc	Bc	Mg Showery clear fair after.	21
22	28·900	50			55	45	115	38	48	46			—	N	1					6							Bc	Bc	Clear & fair	22
23	28·850	50			59	44	110	42	48	47			—	SE	1					10							O	Bc	Mg dull clear after.	23
24	28·800	53			58	49	120	47	51	50			·30	SE	2					10							O	R	Mg dull Afternoon R.	24
25	28·800	51			60	45	120	41	49	46			·71	NE	1					10							O	Bc	Mg dull clear after R at night	25
26	28·450	52			60	45	95	42	50	48			·21	SE	3					10							R	Bc	Mg R Afternoon clear.	26
27	28·250	51			61	42	115	39	48	46			·07	W	1					10							O	Bc	Mg dull clear after Evg P	27
28	28·600	53			55	45	90	43	52	49			·76	S	4					8							Bc	BcP	Clear & fair Evg P.	28
29	28·350	51			58	49	100	46	53	50			·53	E	8					10							R	P	Dull & R throughout.	29
30	28·500	54			59	50	100	48	52	51			·12	S	1					10							M	P	Mg M clear after Afternoon P.	30
31	28·700	53			60	50	122	47	53	50			—	SW	2					7							Bc	Bc	Bright Sunshine	31
Sums.	86	11			15	11			16	15			4·67				71			243										
	23·07	105			124	244			115	59																				
Means.	28·744	53·4			64·0	46·9			53·7	51·9							2·3			7·8										
Instrumental Errors.	+0·60									−1·0																				
Corrected Means.	804																													

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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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. —.....6.6 } 28.740

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

Mean at Station, corrected, and at 32°, ... 28.740

Correction for height, feet above Mean Sea Level,... + ·995

Mean, reduced to 32°, and Sea Level, ... 29.735

Highest Reading, corrected for Index error, on th,.....

Lowest Do. Do., on th,.....

Difference, or **Monthly Range,** .....

SELF-REGISTERING THERMOMETERS.

Highest in Month, on 1/4 th, ... 73

Lowest in Month, on 4 th, ... 37

Difference, or **Monthly Range,** 36

Mean of all the Highest, ... 64·0

Mean of all the Lowest, ... 46·9

Difference, or **Mean Daily Range,** ..... 17·1

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 55·5

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, ... 53·7

Wet Bulb, Mean of A.M. and P.M. Readings, ... 50·9

Computed **Temperature of Dew-Point,** .....

Do. **Elastic Force of Vapour,** ..... ·337

Do. **Relative Humidity** (Saturation = 100),... 81%

RAIN fell on 19 **Days; Amount in Inches,** 4.67

WIND.	SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	4	2	3	6	5	2	7	2		
P.M.										
Sum.	8	4	6	12	10	4	14	4	0	2·3

* 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, ...	19
Snow, ...	0
Hail, ...	0
Thunder, ...	0
Clear Sky, ...	1
Overcast, ...	17
Fog, ...	0
Ground Frost, ...	0
Gale, ...	3

INSTRUMENTS IN USE.

Barometer, No. 1758

Dry Bulb, No. 518

Wet Bulb, No. 518

Maximum, No. 67067

Minimum, No. 66939

Solar Radiation, No.

Grass Min., No. 804

Sun Recorder, No.

1-foot Therm., No.

4-foot Therm., No.

Observations made and Return verified by John M Troup

(Signed) John M Troup

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of September 1910.

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. 9 A.M. Barometer. (inches.)	BAROMETER. 9 A.M. Attached Thermometer (°)	BAROMETER. 9 P.M. Barometer. (inches.)	BAROMETER. 9 P.M. Attached Thermometer (°)	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M. (°)	Screen. Min. 9 P.M. (°)	Black Bulb Max. in Sun. 9 P.M. (°)	Min. on Grass. 9 A.M. (°)	HYGROMETER. 9 A.M. Dry bulb. (°)	9 A.M. Wet bulb. (°)	9 P.M. Dry bulb. (°)	9 P.M. Wet bulb. (°)	†RAIN. Amount at 9 A.M. (inches.)	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins. (°)	12 ins. (°)	48 ins. (°)	WEATHER. At 9 A.M.	At 9 P.M.	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.
1	29.150	46			60	35	120	30	45	40			·18	W	1					4							Bc	Bc	clear of air Evg P.	1
2	29.050	50			63	40	120	36	44	43			·30	W	1					10							R	Bc	Mg R clear of air after.	2
3	28.950	51			57	45	122	43	50	46			—	NW	8					6							Bc	Bc	✓ clear fair ✓	3
4	29.200	51			61	46	130	43	49	48			—	W	4					8							Bc	Bc	Bright Sunshine.	4
5	29.250	45			65	33	134	27	55	54			—	W	1					0							B	Bc	Bright Sunshine.	5
6	29.200	55			62	53	132	48	53	52			—	WNW	1					10							O	Bc	Dull but fair	6
7	29.300	48			58	39	133	35	52	50			—	NNW	1					7							Bc	Bc	clear of air.	7
8	29.200	40			64	30	130	25	53	51			—	SW	0					0							B	Bc	Bright Sunshine.	8
9	29.150	47			66	31	131	28	48	48			—	SW	1					5							Bc	B	Bright Sunshine.	9
10	29.200	52			66	39	113	35	49	47			·12	SW	1					10							O	Bc	Mg Dull Midday clear afternoon P.	10
11	29.250	51			65	45	115	42	48	46			—	NNW	1					10							O	Bc	Mg dull clear after.	11
12	29.200	52			68	48	136	45	50	49			—	NW	1					8							Bc	Bc	clear of air.	12
13	29.100	50			65	40	134	38	44	43			—	W	1					8							Bc	Bc	Bright Sunshine.	13
14	29.250	44			65	32	125	28	44	42			—	W	1					0							B	Bc	Bright Sunshine.	14
15	29.300	44			64	36	130	32	40	39			—	WNW	1					10							H	Bc	Mg hazy clear after.	15
16	29.350	45			65	40	130	36	42	40			—	SW	1					10							O	Bc	Mg dull Bright Sunshine after.	16
17	29.420	46			65	36	130	33	47	48			—	NNW	1					3							B	Bc	Bright Sunshine.	17
18	29.200	49			63	38	131	35	43	40			·12	W	3					8							Bc	Bc	clear of air Pat night.	18
19	28.950	47			50	40	110	38	42	40			·23	NNW	6					8							O	P.	Dull & Showery. Throughout	19
20	29.200	40			50	36	93	33	38	37			—	SW	4					8							Bc	Bc	clear of air.	20
21	29.200	45			65	33	132	28	45	43			—	W	2					0							Bc	Bc	hfs clear of air.	21
22	29.220	49			58	40	108	37	48	46			—	NNE	2					4							Bc	C.	Dull but fair.	22
23	29.050	53			60	48	115	44	50	48			—	NW	8					10							O	Bc	✓ Dull but fair ✓	23
24	28.950	57			60	53	130	50	56	55			—	WNW	8					7							Bc	Bc	clear of air	24
25	29.150	50			62	44	130	42	47	45			·02	S	1					8							Bc	Bc	clear & fair Evg P.	25
26	28.950	52			64	46	90	45	47	48			—	S	1					10							H	Bc	Mg hazy clear after.	26
27	28.900	49			61	40	121	35	43	40			—	W	1					10							O	Bc	Mg dull clear after.	27
28	28.950	53			59	44	120	42	53	52			·08	SW	1					10							Bc	Bc	clear of air Pat night	28
29	28.700	53			58	50	121	47	53	50			—	W	2					6							Bc	Bc	clear of air.	29
30	28.800	48			61	41	122	38	45	43			—	SW	1					4							Bc	Bc	clear of air.	30
31																														31
Sums.	117	12			12	11			13	12			1.05		66					202										
	3.74	262			50	21			228	173																				
Means.	29.125	48.7			61.7	40.7			47.6	45.4			✓		2.2					6.7										
Instrumental Errors.	+0.60				✓	✓				-1.0																				
Corrected Means.	185								.256	44.4 / 78																				

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.		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. — 52 } 29.133

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

Mean at Station, corrected, and at 32°, 29.133

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 12 th, 68

Lowest in Month, on 8 th, 30

Difference, or **Monthly Range,** 38

Mean of all the Highest, 61.7

Mean of all the Lowest, 40.7

Difference, or **Mean Daily Range,** 21.0

Mean Temperature of Month, ½ (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, 47.6

Wet Bulb, Mean of A.M. and P.M. Readings, 44.4

Computed **Temperature of Dew-Point,**

Do. **Elastic Force of Vapour,** ·256

Do. **Relative Humidity** (Saturation = 100), 78%

RAIN fell on 7 **Days; Amount in Inches,** 1.05

WIND. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	6				2	7	13	2		
P.M.										
Sum.	12	0	0	0	4	14	26	4	0	2.2

* 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,	0
Hail,	0
Thunder,	0
Clear Sky,	4
Overcast,	10
Fog,	0
Ground Frost,	6
Gale,	3

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) J. M. Group

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OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of October 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	28·900	46			60	40	123	35	46	44			·02	WNW	1					8							Bc	Bc	Clear of air 9 at night.	1
2	28·700	46			61	48	95	45	56	54			·04	S	1					10							O	Bc	My dull clear after 9 at night	2
3	28·550	53			59	42	112	41	49	47			—	NNW	4					7							Bc	Bc	Clear of air	3
4	29·100	55			60	48	110	45	56	55			—	WNW	8					4							Bc	Bc	Clear of air	4
5	29·250	55			64	53	122	48	56	54			—	W	4					3							B	Bc	Bright Sunshine	5
6	29·300	55			63	48	128	43	55	54			—	W	1					4							Bc	Bc	Clear of air	6
7	29·150	49			61	38	134	35	41	40			—	W	4					0							B	Bc	Clear of air	7
8	28·850	52			59	40	121	37	54	53			—	WNW	1					10							O	Bc	Clear of air.	8
9	29·900	40			58	30	113	26	33	32			—	W	2					10							O	Bc	My dull clear after.	9
10	28·950	47			59	40	91	39	48	47			—	W	1					10							O	Bc	My dull clear after.	10
11	28·800	43			52	41	89	38	43	42			·09	SW	1					10							O	P.	Dull & Showery	11
12	29·100	43			58	33	100	31	42	40			·06	W	1					8							O	P	Dull & Showery 2·30 pm	12
13	29·500	41			55	34	117	32	44	43			—	SW	1					10							O	Bc	My dull clear after.	13
14	29·620	39			52	31	120	29	34	33			—	NW	3					8							Bc	Bc	Clear of air	14
15	29·450	38			53	29	110	26	41	40			—	W	1					6							Bc	Bc	Clear of air.	15
16	29·200	46			51	37	91	34	44	43			—	S	2					10							O	H.	Dull & Lazy	16
17	28·950	41			54	31	120	27	40	39			—	SE	1					10							O	Bc	F. My dull clear after	17
18	28·850	42			51	30	88	26	41	40			·33	SW	4					6							Bc	P.	hfr. My clear. Afternoon P Evg R.	18
19	28·650	48			48	41	89	38	46	44			·37	E	1					10							OR	R	8·30 am Dull & r throughout	19
20	28·800	40			51	35	87	32	40	38			·75	N	6					10							R	P	Dull & r throughout	20
21	28·960	45			52	43	88	41	44	43			·28	SSE	2					10							OP	R	Dull & Showery.	21
22	29·100	48			50	44	84	40	46	44			·16	SE	1					10							OP	P	Dull & Showery	22
23	29·100	50			50	42	90	40	50	49			·17	SSE	4					8							O	P	Dull & Showery.	23
24	29·000	44			50	39	84	36	42	40			·22	SE	1					10							OP	P	Dull & Showery Evg R.	24
25	29·050	45			51	42	88	38	44	43			·19	S	1					8							O	P	Dull & Showery Evg R	25
26	29·200	46			50	41	89	38	44	41			·02	SE	3					10							OM	OP	My M Dull but fair after Evg P	26
27	29·150	44			52	43	86	39	44	42			·02	NW	2					10							O	OP	Dull but fair Evg P.	27
28	28·900	43			46	42	84	40	43	42			·12	NE	1					9							O	P	Dull & Showery	28
29	28·900	42			48	40	85	38	41	40			·04	SSE	1					10							O	P	My dull Afternoon P	29
30	29·050	40			46	34	86	30	39	38			—	SW	2					10							O	O	Dull but fair	30
31	28·550	40			47	29	84	26	42	40			·23	W	3					10							O	O	Dull but fair Evg P	31
Sums.					11 121	10 278			11 148	10 104			3·11		69					269										
Means.					53·9	39·0			44·8	43·4			✓		2·2					8·4										
Instrumental Errors.						✓				−1·0 42·4																				
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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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 5 th, ... 64·—

Lowest in Month, on 15 th, 31 ..... 29·—

Difference, or **Monthly Range,** ..... 35·—

Mean of all the Highest, ... 53·9

Mean of all the Lowest, ... 39·0

Difference, or **Mean Daily Range,** ..... 14·9

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 46·5

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, ... 44·8

Wet Bulb, Mean of A.M. and P.M. Readings, ... 42·4

Computed **Temperature of Dew-Point,** .....

Do. **Elastic Force of Vapour,** ..... ·243

Do. **Relative Humidity** (Saturation = 100), ... 82%

RAIN fell on 17 **Days; Amount in Inches,** 3·11

WIND. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	3	1	1	4	6	4	11	1		
P.M.										
Sum.	6	2	2	8	12	8	22	2	0	2·2

* 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, ...	17
Snow, ...	0
Hail, ...	0
Thunder, ...	0
Clear Sky, ...	1
Overcast, ...	19
Fog, ...	1
Ground Frost, ...	7
Gale, ...	2

12

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 McGroup

(*Signed*) J McGroup

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

BOOK POST

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of November 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	27.700	40			46	31	108	27	36	35			—	W	3				8								Bc	Bc	hpr clear & fair.	1
2	28.000	34			45	28	100	25	35	33			—	W	2				3								Bc	Bc	hpr clear & fair.	2
3	27.950	40			46	31	90	28	36	34			.26	SW	1				10								OR	Bc R	8a Mg showery clear after Evg R	3
4	28.300	38			46	28	97	24	36	35			.16	N	2				8								OP	O	Dull & showery.	4
5	28.300	35			48	30	89	27	36	32			—	N	1				7								Bc	Bc	hpr clear & fair.	5
6	28.000	36			40	20	76	15	30	28			.73	W	1				0								B	S	hpr clear. afternoon *	6 *
7	27.650	34			40	23	74	20	30	29			.80	SW	1				8								Bc	SR	Mg clear. afternoon *. R.	7 *
8	28.200	35			41	29	76	26	34	32			—	NW	2				8								Bc	Bc	clear & fair.	8
9	28.300	34			40	28	90	26	34	31			.09	W	4				8								Bc	S	Mg clear * after.	9 *
10	28.850	28			38	18	100	14	26	24			—	W	1				0								B	Bc	clear & fair	10
11	28.300	32			40	24	104	22	30	25			—	NW	3				0								B	Bc	clear & fair	11
12	28.500	30			36	19	104	16	29	28			.11	W	1				6								Bc	Bc	clear fair R at night.	12
13	28.250	36			40	30	68	27	36	34			.30	SW	4				10								O	R	Dull & r throughout	13
14	27.750	37			42	34	90	29	38	36			.58	NW	1				10								OR	R	Dull & r throughout	14
15	28.200	35			40	33	87	31	36	34			—	NW	2				8								Bc	Bc	clear fair	15
16	28.400	31			39	28	101	26	33	32			.02	W	4				6								Bc	Bc	clear fair * at night.	16 *
17	28.200	33			41	31	84	28	33	32			.57	NW	8				8								O	R	Dull & r throughout	17 g.
18	28.650	35			43	34	94	32	35	34			.60	NW	6				10								OR	RS	Dull & r throughout Evg *	18 *
19	28.000	32			40	22	86	20	28	26			.04	W	1				0								Bc	Bc	clear & fair. Evg S.	19
20	28.800	30			42	19	100	17	26	24			.08	NW	8				4								Bc	S	Mg clear afternoon *	20 g.*
21	28.000	32			40	28	70	25	34	33			—	W	4				6								Bc	Bc	clear fair	21
22	28.000	27			38	20	101	17	26	23			—	SW	1				0								B	Bc	clear fair	22
23	28.800	21			42	10	91	8	18	16			.09	NE	6				8								Bc	Bc	clear fair Evg OR.	23
24	28.850	32			44	33	101	32	28	27			.08	SE	4				10								OP	Bc	Mg showery clear after.	24
25	28.800	35			41	34	94	32	35	34			—	S	1				10								O	Bc	Mg dull clear after	25
26	28.700	36			43	33	88	31	35	34			.05	W	1				8								Bc	Bc	clear & fair Eg P.	26
27	28.650	36			41	33	89	28	35	34			—	W	1				10								OM	Bc	Mg M clear after.	27 f.
28	28.500	27			42	31	86	28	38	37			.04	SW	2				8								Bc	Bc	Mg clear afternoon P	28
29	28.300	36			41	33	88	31	36	35			.05	NW	1				10								O	OS	Mg dull afternoon Sn showers	29 *. A.
30	28.700	36			44	30	89	27	35	33			—	N	4				10								O	Bc	clear & fair	30
31																														31
Sums.					8 49	11 327			15 85	13 39			8 485		81				202											
Means.					44.6	27.6			32.8	31.3			✓		2.7				6.7											
Instrumental Errors.					✓	✓			✓	~~+0.0~~																				
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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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 5 th, ... 48

Lowest in Month, on 23 th, ... 10

Difference, or **Monthly Range,** ... 38

Mean of all the Highest, ... 41.6

Mean of all the Lowest, ... 27.6

Difference, or **Mean Daily Range,** ... 14.0

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 34.6

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, ... 32.8

Wet Bulb, Mean of A.M. and P.M. Readings, ... 31.3

Computed **Temperature of Dew-Point,** ...

Do. **Elastic Force of Vapour,** ... .155

Do. **Relative Humidity** (Saturation = 100), ... 83%

RAIN fell on 18 **Days; Amount in Inches,** 4.85

WIND.	SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	4	1		1	1	5	11	7		
P.M.										
Sum.	8	2	0	2	2	10	22	14	0	2.7 ✓

* 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, ...	18
Snow, ...	7
Hail, ...	0
Thunder, ...	0
Clear Sky, ...	5
Overcast, ...	9
Fog, ...	1
Ground Frost, ...	24
Gale, ...	2
	16

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. 856

Sun Recorder, No.

1-foot Therm., No.

4-foot Therm., No.

Observations made and Return verified by John M. Tomp

(*Signed*) M. Tomp

THE SECRETARY

SCOTTISH METEOROLOGICAL SOCIETY

122 GEORGE STREET

EDINBURGH

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SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at Balmoral, County of Aberdeenshire, During the MONTH of December 1910.

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. 9 A.M. Barometer.	BAROMETER. 9 A.M. Attached Thermometer	BAROMETER. 9 P.M. Barometer.	BAROMETER. 9 P.M. Attached Thermometer	*SELF-REGISTERING THERMOMETERS. Screen. Max. 9 P.M.	Screen. Min. 9 P.M.	Black Bulb Max. in Sun. 9 P.M.	Min. on Grass. 9 A.M.	HYGROMETER. 9 A.M. Dry bulb.	9 A.M. Wet bulb.	9 P.M. Dry bulb.	9 P.M. Wet bulb.	†RAIN. Amount at 9 A.M.	WIND. 9 A.M. Direction.	9 A.M. Force. Scale of 0—12.	9 P.M. Direction.	9 P.M. Force. Scale of 0—12.	Anemometer. 9 A.M.	CLOUDS. 9 A.M. Species and Direction.	9 A.M. Amount (0—10).	9 P.M. Species and Direction.	9 P.M. Amount (0—10).	SUNSHINE. Hours.	THERMOMETERS under Ground. 9 A.M. 3 ins.	12 ins.	48 ins.	WEATHER. At 9 A.M.	At 9 P.M.	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.
	inches.	°	inches.	°	°	°	°	°	°	°	°	°	inches.											°	°	°				
1	29·150	32			43	28	104	25	30	29			—	W	2					10							0	0	☒ Dull but fair	1
2	29·150	34			40	30	98	27	36	34			—	SW	1					8							0	0	☒ Dull but fair.	2
3	29·100	34			42	31	68	27	33	34			·08	SSE	1					10							0	0	☒ Dull but fair Evg R	3
4	28·850	38			41	34	63	32	36	35			·16	SE	1					10							OP	R	Dull & r throughout	4
5	28·150	38			46	36	69	33	40	38			·23	S	1					10							OR	OR	Dull & r throughout.	5
6	28·250	44			44	41	98	38	44	43			·04	W	0					10							O	OP	Mg dull afternoon P.	6
7	28·300	38			44	29	86	25	38	37			—	W	1					0							B	Bc	Mpr. clear & fair.	7
8	28·300	38			46	30	90	27	37	35			·78	SSE	4					10							OP	R	Dull & r throughout	8
9	28·100	42			46	43	84	40	45	44			·68	W	2					10							OR	R	Dull & r throughout	9
10	27·900	44			47	43	68	40	45	44			·34	SSE	4					10							OR	R	Dull & r throughout.	10
11	28·050	43			46	41	63	38	44	43			·17	NE	1					10							OR	P	Dull & Showery.	11
12	28·150	43			48	37	84	33	40	39			·14	S	1					10							O	OR	Dull but fair r at night.	12
13	28·050	44			46	39	81	36	42	40			·11	SE	4					10							O	P	Dull & Showery	13
14	28·000	41			46	40	80	37	40	39			·09	SE	1					10							O	P	Dull & Showery.	14
15	28·050	43			48	38	78	34	41	40			·04	W	1					8							Bc	OP	Mg clear dull after Evg P	15
16	28·200	42			48	39	70	36	42	40			·28	E	1					10							O	OR	Dull but fair Evg R.	16
17	28·800	40			47	38	72	36	41	40			·18	NE	2					10							OR	Bc	Mg R. Afternoon dull but fair.	17
18	28·750	37			46	32	108	29	37	35			·04	SE	2					8							Bc	BcP	Clear & fair. P at night.	18
19	28·900	42			48	34	88	32	38	37			·02	W	1					10							OP	Bc	10 10 am Mg Showery Clear after.	19
20	28·650	44			50	30	80	27	41	40			·06	SW	1					10							O	P	Mg clear afternoon Showery.	20
21	28·050	40			49	28	86	25	40	38			·09	SE	6					10							Bc	BcP	✓ Clear & fair P at night.	21
22	28·750	42			54	37	90	34	41	40			·01	W	2					8							Bc	Bc	Clear & fair.	22
23	28·700	32			54	27	99	34	50	49			·08	MW	4					8							Bc	BcS	Clear & fair. P at night ✓	23
24	28·350	43			52	38	89	36	42	41			·02	NW	6					4							Bc	P	✓ Mg Clear Afternoon P ✓	24
25	28·350	42			48	36	84	33	41	40			·04	NW	8					4							Bc	BcS	✓ Clear & fair Evg * ✓²	25
26	28·300	36			47	31	81	29	36	35			·08	MW	10					6							Bc	BcS	M° ✓² Mg Clear Afternoon So Showers	26
27	28·750	34			49	24	90	20	35	33			—	W	2					10							O	Bc	Mg dull Clear after.	27
28	28·700	34			48	28	91	24	36	34			—	W	1					8							Bc	Bc	Clear & fair.	28
29	28·750	36			40	34	90	31	36	35			—	SW	1					4							Bc	Bc	Clear & fair.	29
30	29·100	33			44	34	80	30	35	33			—	W	1					6							Bc	Bc	Clear & fair.	30
31	28·900	38			47	32	91	28	40	38			·16	W	1					10							O	Bc	Clear & fair ✓² ☆.	31
Sums.					16	14			10	13			13																	
					204	142			294	252			412		74					260										
Means.					46·6	34·6			39·5	38·1			✓		2·4					8·4										
Instrumental Errors.					✓	✓				1·4										✓										
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.
		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.		
g.	,, gloomy.	v.	,, unusual visibility of distant objects.
h.	,, hail.		
l.	,, 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.		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 22 th, 23 54

Lowest in Month, on 27 th, ... 24

Difference, or **Monthly Range,** 30

Mean of all the Highest, ... 46·6

Mean of all the Lowest, ... 34·6

Difference, or **Mean Daily Range,** ..... 12·0

Mean Temperature of Month, ½ (Mean Max. + Mean Min.), ... 40·6

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, ... 39·5

Wet Bulb, Mean of A.M. and P.M. Readings, ... 38·1

Computed **Temperature of Dew-Point,** .....

Do. **Elastic Force of Vapour,** ..... ·214

Do. **Relative Humidity** (Saturation = 100),... 89%

RAIN fell on 24 **Days; Amount in Inches,** 4·12

WIND. SUMMARY. Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force 0—12.
A.M.	2	2	1	5	5	3	11	2		
P.M.										
Sum.	4	4	2	10	10	6	22	4	0	24

* 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, ...	24
Snow, ...	2
Hail, ...	0
Thunder, ...	0
Clear Sky, ...	1
Overcast, ...	19
Fog, ...	0
Ground Frost, ...	13
Gale, ...	5
	12

INSTRUMENTS IN USE.

Barometer, No. 1758

Dry Bulb, No. 518

Wet Bulb, No. 518

Maximum, No. 67067

Minimum, No. 66739

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 McIroup

(*Signed*) John McIroup

Balmoral
1910

THE SECRETARY

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