

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barone Cottage, Duthie St.*, in Lat. $55^{\circ}49'50''$, Long. $5^{\circ}4'5''$, Distance from Sea $\frac{10}{10}$ miles.
Height of Cistern of the Barometer above Mean Sea-Level $\frac{116}{116}$ feet, above Ground $\frac{3}{3}$ feet. During the MONTH of *January* 188*9*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			SEA. Temperature and Direction.	OZONE. 0-10.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.	Days of Month.						
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs. Max. Min. on Surveys.		9 h. A.M.		9 h. P.M.			No. of hours in which it fell.		Amount in inches.		9 h. A.M.		9 h. P.M.			Readings of the H. Cup Anemometer.		9 A.M.					P.M.		9 h. A.M.			
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. No.	Min. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No.	No.	Direction.	Force.	Direction.	Force.	No.	No.		Direction.	Force.	Velocity (0-10), and Species.					Amount (0-10), and Species.	Velocity (0-10), and Species.	Amount (0-10), and Species.	No. 3 inches.	No. 12 inches.	No. 22 inches.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°				
	1	30.120	39	30.290	40	39	30.5			32.5	32	30.5	30	005	SW	5	calm							2								Clear frosty	1			
	2	30.420	37	30.500	38	36	30.7	5		30.3	30	30.2	35.6	001	calm		calm							10	10							Clear fog all day	2			
	3	30.480	41	30.462	44	46.5	36			42.6	41.2	44.2	42.3		SW	5	SW	1						8	10							Cloudy mild	3			
	4	30.410	43	30.296	45	44.5	41			42.5	40.3	41.8	40		S	5	SW	5						10	10							Dull & fine	4			
	5	30.140	44	29.950	43	44.6	38			41	39.2	42.2	40.3	003	SSW	5	WSW	5						3	10							Clear fine	5			
	6	29.916	45	29.910	44	44.5	34.5			38	37.2	34.9	33.2		calm		calm							3	1							Clear fine	6			
	7	29.830	42	29.690	45	42.5	30			33	32	41.2	41	220	NE	5	SE	5						6	8							Clear fine	7			
	8	29.476	45	29.360	44	44.3	41			42.8	41.5	42	42.3	680	SSE	1.5	SSE	2						10	10							Clear fine	8			
	9	29.120	45	29.150	44	45	33.5			42	41.2	38.3	38	655	SE	5	W	5						10	8							Clear fine	9			
	10	29.400	41	29.600	40	38.8	29.5			31	31.5	30.3	29.3	008	calm		NW	5														Clear fine	10			
	11	29.520	40	29.390	41	39.6	29			36	35.3	36	29.4		SE	1	SE	2						8	10							Clear fine	11			
	12	29.610	40	29.840	40	40.6	36.2			37.5	35.3	36	29.5		ENE	1.5	ENE	5						8	8							Clear fine	12			
	13	30.048	40	30.122	40	39.2	31.5			35.5	33.8	33	32.5		SE	5	SE	5						10	10							Clear fine	13			
	14	30.070	41	30.000	45	42	32			39.5	38.5	40	37.5		SE	5	S	1.5						8	10							Clear fine	14			
	15	29.840	44	29.714	45	43.5	40			42.5	40.5	41.5	40.5	170	SSE	1.5	SSE	2						10	10							Clear fine	15			
	16	29.684	43	29.756	45	43.5	37.5			38.2	37.3	40	39	200	SE	1	S	5						10	10							Clear fine	16			
	17	30.004	43	29.970	47	47	36			39.2	38.5	45.8	45.5	290	SW	5	SW	1						10	9							Clear fine	17			
	18	29.920	49	30.000	48	55	40			53.8	51.3	40.8	38	290	SW	1.5	WNW	2						10	5							Clear fine	18			
	19	30.032	46	30.100	46	45.5	38.5			43.2	41	42	41.3	070	W	1.5	WSW	5						8	10							Clear fine	19			
	20	30.200	44	30.210	46	46.5	35			35.3	34.8	44.3	42.3	020	calm		WSW	5						3	10							Clear fine	20			
	21	30.300	45	30.470	45	50.5	36			43	42	36	34.5		NW	5	calm							2								Clear fine	21			
	22	30.488	42	30.400	45	45.5	31			32	31.5	41.2	43.5	010	NW	5	NW	5						3	9							Clear fine	22			
	23	30.420	45	30.410	48	48.3	42.5			44.8	44.3	44	43.5	016	W	5	SW	5						9	10							Clear fine	23			
	24	30.396	47	30.344	49	46.6	43.6			45	44.6	44.8	44.2	050	SW	5	SW	1						10	10							Clear fine	24			
	25	30.250	49	30.160	51	47.5	43.8			46	45.3	47	46.8	245	SW	1.5	NW	1.5						10	10							Clear fine	25			
	26	30.160	49	30.364	44	48.3	34.5			44.8	44	34	32.2		W	5	NE	5						10								Clear fine	26			
	27	30.456	41	30.250	44	44.5	27.2			45.2	43.8	46	43.2	032	NE	5	S	1														Clear fine	27			
	28	30.126	40	29.892	47	48	42.5			45.2	43.8	46	43.2	255	SW	5	SW	1						10	10							Clear fine	28			
	29	29.392	47	29.756	46	48.5	38			42.5	42	40	37.5	190	NW	2	NW	1						10	8							Clear fine	29			
	30	29.366	48	29.694	49	49.5	39.5			47.5	46.3	43	41.2	040	NSW	1.5	W	5						9	5							Clear fine	30			
	31	29.500	49	29.604	51	51	42.3			47.3	46.2	47.2	45.2	205	SW	1.5	W	5						10	5							Clear fine	31			
	Sums.	13	36.044	13	30.654	13	418.0			1310	129	112	108	3.545		235		240						230	236								NOTATION USED IN GENERAL REMARKS.			
	Means.	29.971	43.5	29.889	44.7	44.5	36.1			40.2	39.6	40.4	39.1	22		076		077						7.4	7.6											
	† Total Corrections for Instrumental Errors.																																			
	† Corrections for Diurnal Range.																																			
	"Corrected Means."																																			
	No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	micro-meteor.
ci-cu.	cirro-cumulus.	n.	nebula.
ci-s.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.
d.	dew.	s.	stratus.
f.	fog.	sc.	scud.
fr.	frost.	s.	sleet.
h-fr.	hoar-frost.	s.	snow.
h.	haze.	so. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
hi.	hail.	sq.	squalls.
li. cl.	lightning.	t.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
lu. co.	lunar corona.	g.	gale of wind.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction †† for Temp. (Col. 2), = 29.930
"Corrected Mean" of Barometer at 9 P.M., minus the Correction †† for Temp. (Col. 4), = 29.946
Mean at Station, corrected, and at 32°, = 29.938
Correction for height, 116 feet above Mean Sea-level, = 0.127
Mean, reduced to 32°, and Sea-level, = 30.065
Highest Reading, corrected for Index error, on the 2 th., = 30.500
Lowest Do. Do., on the 9 th., = 29.120
Difference, or Monthly Range, = 1.380

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18 th., = 55.0
Lowest in Month, corrected for Index errors, on the 27 th., = 27.2
Difference, or Monthly Range, = 27.8
"Corrected Mean" of all the Highest, (Col. 5), = 45.2
"Corrected Mean" of all the Lowest, (Col. 6), = 36.1
Difference, or Mean Daily Range, = 9.1
** Calculated Mean Temperature of Month, = 40.4
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th., =
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =
Lowest at Night, Black Bulb (corrected for Index errors), on the th., =
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 40.3
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.1
†† Computed Temperature of Dew-Point, = 37.6
†† Do. Elastic Force of Vapour, = 2.25
†† Do. Weight of Vapour in a Cubic Foot of Air, = 91
†† Relative Humidity (Saturation = 100), = 91
RAIN fell on 22 Days; Amount in Inches, = 3.54

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

Observations made and
Return verified by

James Shaw
Barone Cottage
Duthie St.

(Signed)

James Shaw

W. J.
J. E.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barone Cottage*, County of *Bute*, in Lat. $55^{\circ}49'50''$, Long. $5^{\circ}45'$, Distance from Sea $\frac{8}{10}$ miles.Height of Cistern of the Barometer above Mean Sea-Level $\frac{116}{116}$ feet, above Ground $\frac{13}{13}$ feet.During the MONTH of *February* 188*9*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 3 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors. Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.							
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.												
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of hours in which it fell.	Direction.	Force.	Direction.	Force.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	No. 8 inches.	No. 12 inches.	No. 22 inches.					Temperature of Well at depth of feet, No.	Temperature at 1 fathom, and Depth.	9 A.M.	2 P.M.			
		* No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.					No.	No.	No.	No.	No.	No.	No.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°	°	°					°	°	°	°	°	°	°
	1	29.350	51	29.214	48	51.6	39			50.5	50	40.3	36	125	SW	1	N	2-4				10		10								4 clear incl. stormy	1				
	2	29.200	42	29.076	42	41.5	31			33.5	31.8	36.8	31.5	240	NNW	2-3	NW	2-2				10		10								Force blast hail & steel	2				
	3	29.076	40	29.040	41	44	34			38	35	38	35	005	NW	2-3	NW	1				3		8								1/2 clear blowing fine pm	3				
	4	30.232	39	30.300	40	46.2	34.6			36.2	32	33	31	105	N	5	NE	5				2		9								3/4 " fine	4				
	5	29.954	43	29.922	44	46.5	33			41.8	41	41.5	37.5	005	SW	1	NW	1.5				10		3								1/2 " "	5				
	6	29.880	42	29.660	43	43	37			38.8	36	38.5	37	288	NW	1	calm	-				2		10								1/4 " "	6				
	7	29.840	38	29.694	40	39.5	28.5			28.5	27	38	36	270	W	5	SW	1															1/4 " " chelly	7			
	8	29.174	41	29.350	37	45.2	31.5			32.8	31.5	32.8	29.8	080	NNW	2	NW	3				8		5								1/4 " force gale	8				
	9	29.590	33	29.720	33	34	25.5			28.5	26.3	25.2	23.6		NW	2	N	5														clear blowing frosty cold	9				
	10	29.510	32	29.280	32	31	23.2			25.8	24.5	27.5	24.8		calm	-	NE	5														1/2 " O.C. fine "	10				
	11	29.604	32	29.900	34	39.5	24.5			29	26.3	30.2	29.6		NW	5	NE	5														clear "	11				
	12	30.150	34	30.054	38	39	28			32.8	32.2	38.2	38	250	NNW	5	NNW	5				6		8								1/4 " O.C. show showers	12				
	13	29.646	39	29.182	45	48.5	35.2			41	39.2	47.3	44.5	540	W	5	WSW	2				8		10								O.C. fine mild	13				
	14	29.224	42	29.132	44	48.5	36.2			38.2	36.2	36.2	36.2	085	W	1.5	W	5				5		5								1/2 clear blowing sho.	14				
	15	29.600	40	29.974	39	43.5	30.2			37	36.5	30.5	28.2	050	NW	1	calm	-				1										3/4 " breezy fine	15				
	16	29.540	38	29.720	45	48.3	29			39.5	38.5	46	42	150	S	2	NW	2				10		1								Bull blowing showers	16				
	17	29.892	45	30.044	48	49.2	42.8			47.2	46.5	48	47	025	WSW	1	SW	5				10		10								" damp	17				
	18	30.084	50	29.970	50	52.5	46.5			51.3	48.5	47.2	46.5	290	WSN	1.5	WSW	1.5				10		10								1/4 clear blowing	18				
	19	30.190	47	30.184	47	48.3	39.5			41.6	39.3	41	39.5	125	W	1.5	W	5				2		9								1/2 " fine	19				
	20	29.890	46	29.996	44	48	39.8			44	42	40.2	38	050	W	5	NNW	1				8										1/4 " blowing showers	20				
	21	30.200	44	30.240	44	46.5	35.5			40	37.5	37.5	35.2	010	SE	5	calm	-				5		5								1/4 " fine	21				
	22	30.176	43	30.124	45	43.6	37			40.5	39	40.8	40.3	030	NW	5	E	5				10		10								Bull damp	22				
	23	30.260	44	30.370	42	46.5	35.5			40.2	36.5	35.5	33.3		SW	5	E	5				2		5								1/2 clear fine chelly	23				
	24	30.294	41	30.244	41	47.3	32.8			35.5	33.5	35	33		NE	5	N	5				8		3								1/2 " "	24				
	25	30.064	40	29.744	41	39.5	30.2			26.8	32	35.8	35.3	368	NNW	5	calm	-				10		10								Bull damp	25				
	26	29.820	39	29.770	40	40	32.8			34.5	33	32.8	31	006	NE	5	calm	-				9		10								1/4 clear snow showers fine	26				
	27	29.640	38	29.634	38	38.8	31			33.8	32	34	31		NE	5	ENE	5				9		5								1/4 chelly fine	27				
	28	29.746	38	29.890	38	44.6	32.3			33.6	31.5	38	32.5		E	1	E	1.5				10		10								1/4 O.C. " "	28				
	29	-	-	-	-	-	-			-	-	-	-		-	-	-	-				-		-										29			
	30	-	-	-	-	-	-			-	-	-	-		-	-	-	-				-		-										30			
	31	-	-	-	-	-	-			-	-	-	-		-	-	-	-				-		-										31			
Sums.		12145	11	14145	11	169	149			1311	137	138	147	30297	8	8						167		186													
Means.		29.826	20	29.128	43	11.6	9.1			29.515	35.6	30.8	34.5	29.9	27.6	25.2																					
+ Total Corrections for Instru- mental Errors.		29.779	40.7	29.790	44.5	44.0	33.3			37.5	35.6	37.2	35.2		0.99	0.90																					
+ Corrections for Diurnal Range.																																					
"Cor- rected Means."																																					
No. of Column.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	meteors.
ci-cu.	cirro-cumulus.	n.	nimbus.
ci-s.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.
d.	dew.	s.	stratus.
f.	fog.	sc.	scud.
fr.	frost.	s.	sleet.
h-fr.	hard frost.	so. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sq.	squall.
hl.	hail.	sq.	squall.
l.	lightning.	t. s.	thunder-storm.
li. cl.	light clouds.	w.	wind.
li. sh.	light showers.	g.	gale of wind.
lu. co.	lunar corona.		
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	5	Blowing hard
0.5	Very light air	2	Fresh breeze	6	Blowing a gale
1	Light air	3	Very fresh		Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{11}{11}$ for Temp. (Col. 2), = 29.746
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{11}{11}$ for Temp. (Col. 4), = 29.755
Mean at Station, corrected, and at 32°, = 29.750
Correction for height, feet above Mean Sea-level, = 1.27
Mean, reduced to 32°, and Sea-level, = 29.877
Highest Reading, corrected for Index error, on the 23 th., = 30.870
Lowest Do. Do., on the 2 th., = 29.676
Difference, or Monthly Range, = 1.294

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18 th., = 52.5
Lowest in Month, corrected for Index errors, on the 2 th., = 23.2
Difference, or Monthly Range, = 29.3
"Corrected Mean" of all the Highest, (Col. 5), = 44.0
"Corrected Mean" of all the Lowest, (Col. 6), = 33.3
Difference, or Mean Daily Range, = 10.7
** Calculated Mean Temperature of Month, = 38.6

S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 18 th., = 52.5
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 52.5
Lowest at Night, Black Bulb (corrected for Index errors), on the 2 th., = 23.2
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 23.2
Difference of above means or range ("exposed"), = 29.3

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 37.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 35.4
† Computed Temperature of Dew-Point, = 32.6
† Do. Elastic Force of Vapour, = 1.86
† Do. Weight of Vapour in a Cubic Foot of Air, = 84
† Relative Humidity (Saturation = 100), = 84
RAIN fell on 21 Days; Amount in Inches, = 3.30

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	2	3	1	1	1	3	9	7	1	0.99	
P.M.	2	3	4	0	0	2	6	6	5	0.90	
Mean.	2	3	3	0	0	3	8	6	3	0.94 = 0.88	th

Observations made and
Return verified by

James May

(Signed)

James May

MA

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barone Cottage* *Dunbarton* County of *Dunbarton*, in Lat. *55° 49' 52"* Long. *5° 4' 5"*, Distance from Sea *19* miles.Height of Cistern of the Barometer above Mean Sea-Level *116* feet, above Ground *3* feet.During the MONTH of *March* 188*9*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		P.M.		9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force.	Direction.	Force.	9 h. A.M.	Amount (0-10), and Species.	9 h. A.M.	Amount (0-10), and Species.	No.	No.	No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	denotes meteor.
ci-cu.	cirro-cumulus.	n.	denotes nebula.
ci-s.	cirro-stratus.	r.	denotes rain.
cu.	cumulus.	h. r.	heavy rain.
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.
d.	dew.	s.	stratus.
f.	fog.	sc.	scud.
fr.	frost.	s.	sleet.
h.-fr.	hoar-frost.	s.	snow.
h.	haze.	so. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
h.	hail.	s.	squalls.
li.	lightning.	t.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
lu. co.	lunar corona.	g.	gale of wind.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = *29.808*"Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = *29.813*Mean at Station, corrected, and at 32', = *29.810*Correction for height, 116 feet above Mean Sea-level, = *.127*Mean, reduced to 32', and Sea-level, = *29.937*Highest Reading, corrected for Index error, on the 15th, = *30.434*Lowest Do. Do., on the 19th, = *28.980*Difference, or Monthly Range, = *1.454*S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 31th, = *54.5*Lowest in Month, corrected for Index errors, on the 4th, = *27.0*Difference, or Monthly Range, = *27.5*"Corrected Mean" of all the Highest, (Col. 5), = *46.9*"Corrected Mean" of all the Lowest, (Col. 6), = *35.6*Difference, or Mean Daily Range, = *11.3*** Calculated Mean Temperature of Month, = *41.2*S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 31th, = *54.5*"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *54.5*Lowest at Night, Black Bulb (corrected for Index errors), on the 4th, = *27.0*"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *27.0*Difference of above means or range ("exposed"), = *27.5*HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *40.3*Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *38.4*Computed Temperature of Dew-Point, = *36.0*Do. Elastic Force of Vapour, = *.212*Do. Weight of Vapour in a Cubic Foot of Air, = *.85*Relative Humidity (Saturation = 100), = *85*RAIN fell on 19 Days; Amount in Inches, = *1.97*

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.		6	2	3	4	1	8	7			
P.M.		3	4	2	2	3	6	7	4		
Mean.		0	5	3	2	3	2	7	2		

Observations made and
Return verified by*James Kay*

(Signed)

James Kay

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barone Cottage Rothbury* County of *Bute*, in Lat. *55° 49' 50"*, Long. *5° 41' 5"*, Distance from Sea *10* miles.

Height of Cistern of the Barometer above Mean Sea-Level *116* feet, above Ground *3* feet.

During the MONTH of *April* 188*9*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.						
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		P.M.		9 h. A.M.		P.M.		9 h. A.M.		P.M.											
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	Velocity (0-10), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.					Direction.	Force.	Direction.	Force.		
		No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.					No.	No.	No.	No.	No.	No.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°	°	°					°	°	°	°	°	°
	1	29.790	47	29.800	45	48.8	26.6			46.3	42.3	38.6	36.5	1.82	WSW	2	W	1.5				9	5							1/2 clear	fine	blasts	slut & haul			
	2	29.984	41	29.870	43	45.2	26.3			39.2	35	38.5	35	1.50	NW	4.5	calm					9	10							1/4 "	breaky & fine					
	3	29.660	41	29.184	41	29.5	23.3			35	34	26.5	36	1.77	NE	5	ENE					10	10							Dull	& wet	(slut)				
	4	29.150	41	29.460	42	42.6	25.5			37	36.2	38.6	37	0.06	NE	1	NE	1.5				10	10							"	blowy	& slud				
	5	29.500	41	29.580	42	42.6	27.5			39.5	37.5	37.5	35.6		NE	1.5	E	1.2				10	10							"	"	"				
	6	29.546	41	29.506	43	47.5	25			40.2	38	39.2	37		ENE	1	ENE	1				9	8							1/2 clear	"	"				
	7	29.520	42	29.550	42	43.8	25			40	37.8	37.5	36.3	0.43	ENE	1	ENE	1				10	10							cloudy	"	"				
	8	29.410	41	29.430	42	48.3	27.5			40.2	38.6	39	36.8		E	1	ENE	2				10	10							Dull	"	"				
	9	29.444	42	29.500	42	46.5	26.5			43	39.3	37.2	35.5	0.03	E	2	ENE	1				8	8							1/2 clear	"	"				
	10	29.536	41	29.594	42	41.5	26.8			37.8	36.3	38.3	37.2	0.40	NE	1.5	NE	2				10	10							Dull	"	"				
	11	29.570	43	29.576	43	51.8	28.3			47.2	43	39.8	38.3	0.80	NE	5	NE	5				6	10							"	"	damp				
	12	29.700	43	29.840	44	46.6	29			41.3	40	39	37		NE	1	E	1				10	8							"	"	"				
	13	29.802	42	29.880	44	51.5	24			47	42	39	35.3		NE	5	N	5				5	9							1/2 clear	"	"				
	14	29.884	43	29.902	48	52.2	28			45	39	41	38		E	5	WNW	5				1								clear	& fine					
	15	29.900	48	29.964	48	58.5	26.6			47.3	43	42.5	39		NNW	5	NNW	5				5	1							clear	& fine					
	16	29.970	47	29.924	49	52	27.5			45	41.8	45.6	43.5		NW	5	NW	1				10	10							cloudy	, chilly					
	17	29.940	50	30.004	49	51	45			47	46.2	45.5	42.8		WNW	1	W	5				10	10							"	fine					
	18	30.022	48	29.954	50	51	44			46.5	43.2	46.5	44		SW	5	SW	5				10	10							"	"					
	19	29.940	51	29.870	51	59	45.8			55	49	46.8	45.3	430	SW	1	W	5				8	10							Dull	- wet p.m.					
	20	29.704	51	29.544	52	53.5	43.6			48.8	46.5	49	44	0.96	WSW	1	SW	1.5				8	2							cloudy	, blowy	, damp				
	21	29.322	49	29.350	50	51	41.3			45.2	41.5	43	40.5	0.85	SSW	1.5	WNW	1				9	3							1/2 clear	showered					
	22	29.610	49	29.650	49	50.5	37			45.2	39.6	38.5	34.5	0.60	NW	1	calm					3	5							3/4 "	fine	chilly				
	23	29.280	49	29.294	51	62.8	37.3			44.8	42.8	42	40	0.10	SW	5	NW	5				8	10							1/4 "	"					
	24	29.554	51	29.794	50	56.8	27			51.6	45.5	43.5	40		NE	5	NW	5				3	8							1/4 "	"	cold				
	25	29.940	51	29.940	52	58	42			51.5	45	48	44.5		NE	5	calm					3	10							1/4 "	milky fine					
	26	29.810	52	29.682	51	50.5	38			48.3	44	45	44.5	2.43	SE	1	SW	5				6	10							Dull	cold	wet p.m.				
	27	29.800	49	29.760	49	57	40			46	42.6	44	42		SW	5	SE	1				6								3/4 "	fine					
	28	29.620	51	29.490	52	60	41			53	48	44	43	0.28	SE	1.5	SSE	5				6	10							1/4 "	changeable	showered				
	29	29.620	52	29.730	51	54	39.3			50.2	45.2	43	41.2	0.50	S	1.5	SE	5				2	8							1/4 "	"					
	30	29.712	50	29.510	49	56	41			50.2	45.5	45.5	43.5	1.300	E	1	ENE	1.5				8	10							Dull	, blowy	cold				
	31													2.583																						

Sums.	19104.9	15.5	1013	1167						147	158	199	147	17	30.6	2.2	2.2					221	235																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = *29.676*..... *29.630*
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = *29.671*..... *29.622*
 Mean at Station, corrected, and at 32, = *29.626*
 Correction for height, *116* feet above Mean Sea-level, = *1.127*
 Mean, reduced to 32, and Sea-level, = *29.753*
 Highest Reading, corrected for Index error, on the *18*th, = *30.022*
 Lowest Do. Do., on the *4*th, = *29.150*
 Difference, or Monthly Range, = *0.872*

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the *28*th, = *60.0*
 Lowest in Month, corrected for Index errors, on the *14*th, = *28.0*
 Difference, or Monthly Range, = *32.0*
 "Corrected Mean" of all the Highest, (Col. 5), = *50.7*
 "Corrected Mean" of all the Lowest, (Col. 6), = *38.2*
 Difference, or Mean Daily Range, = *12.5*
 ** Calculated Mean Temperature of Month, = *44.4*
 S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the *14*th, = *60.0*
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *50.7*
 Lowest at Night, Black Bulb (corrected for Index errors), on the *14*th, = *28.0*
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *38.2*
 Difference of above means or range ("exposed"), = *12.5*

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *43.4*
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *40.6*
 ** Computed Temperature of Dew-Point, = *37.3*
 ** Do. Elastic Force of Vapour, = *2.22*
 ** Do. Weight of Vapour in a Cubic Foot of Air, = *7.9*
 ** Relative Humidity (Saturation = 100), = *79*
 RAIN fell on *17* Days; Amount in Inches, = *2.58*

WIND.		SUMMARY.			
Direction.		N	NE	E	SE
A.M.		2	9	5	1
P.M.		2	8	2	2
Mean.		2	7	6	1

* Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.
 † Embracing corrections for both capillary and Index Errors.
 ‡ The Diurnal Range for Scotland is as yet unknown.
 § Practically, though not absolutely a minute correction.
 || These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.
 ¶ While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."
 ** Any observations not taken under the Conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and
 Return verified by

James Kay

(Signed)

James Kay

W.H.

8.8.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Maron Cottage, Rathelney, Co. Dub.*, in Lat. *53.49.52*, Long *5.45*, Distance from Sea *10* miles.
Height of Cistern of the Barometer above Mean Sea-Level *116* feet, above Ground *32* feet. During the MONTH of *May* 188*9*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometur, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.		Days of Month.							
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs. Sun's rays.		9 h. A.M.		9 h. P.M.			No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer. No.	Velocity (0-10), and Direction.	Amount (0-10), and Direction.	P.M.	SUNSHINE. H ours.						9 h. A.M.			Temperature of WELL at depth of feet, No.	Temperature at 1 fathom, and Density.	9 A.M.	9 P.M.
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.				Direction.	Force.	Direction.	Force.											No. 9 inches.	No. 12 inches.	No. 22 inches.				
		* No.	inches.	°	inches.	°	°	°	°	°	°	°	°				°	°	°	°											°	°	°				
1	29.460	49	29.630	50	57.5	44				47	46.2	44	41.8	0.15	SSSE	5	E	5				10										Thunder & lightning E	1				
2	29.630	51	29.684	53	60.5	40.3				51.6	47.3	47.3	45	1.38	SE	5	SE	1				6										Thunder & lightning E	2				
3	29.694	51	29.700	52	49.8	44.5				47.2	46.2	44.8	47.3	2.20	SE	1	SSSE	1.5				10										Thunder & lightning E	3				
4	29.820	52	29.866	56	59.5	46.3				52	49	52	50	1.70	SE	1	SE	5				10										Thunder & lightning E	4				
5	29.850	55	29.844	56	61.5	48.3				55	52.2	51.6	52.2		NE	1	NE	1				2										Thunder & lightning E	5				
6	29.900	54	29.854	58	60.8	46.5				53.2	50.5	57.2	54		NE	1.5	NE	1.5				2										Thunder & lightning E	6				
7	29.754	56	29.680	57	64.4	46				53	51	52	51.5		NE	1	NE	5				10										Thunder & lightning E	7				
8	29.660	53	29.740	57	59.8	48				49	48.2	50	47.5		NE	1	SE	5				10										Thunder & lightning E	8				
9	29.732	55	29.672	56	58.5	48				55.2	52.3	52.8	50.3		SE	5	NE	1				9										Thunder & lightning E	9				
10	29.612	53	29.770	54	54	47				51.2	50	49.5	47		SE	5	SE	5				10										Thunder & lightning E	10				
11	29.820	51	29.850	52	51	46.5				47.2	47	49.2	49		SE	5	SE	5				10										Thunder & lightning E	11				
12	29.890	55	29.912	56	60.5	47.5				57	54	54.8	50.5		ENE	5	ENE	1				3										Thunder & lightning E	12				
13	29.940	58	29.890	58	60.5	46.5				57.8	54.5	51.5	49.5		NE	1	NE	5				10										Thunder & lightning E	13				
14	29.790	52	29.744	55	58.5	44.8				49	46	49	47.2		NE	1	E	5				10										Thunder & lightning E	14				
15	29.750	53	29.860	56	59.2	44.5				48.2	47	49.8	47		NNW	5	SW	5				10										Thunder & lightning E	15				
16	29.944	54	29.858	57	61.5	45				53.2	49.8	50	48.5		NE	1	ENE	1				10										Thunder & lightning E	16				
17	29.980	52	29.930	55	63.5	46				49	48	54	50		NE	1	ENE	1				10										Thunder & lightning E	17				
18	29.850	53	29.850	57	64	47.8				51.3	49.2	51.8	50.3		NE	5	calm					10										Thunder & lightning E	18				
19	29.882	58	29.950	59	69.3	47				62.2	47.3	52.5	51		SE	5	W	5				10										Thunder & lightning E	19				
20	30.022	58	30.072	62	73	49.6				59.2	55	54	52.5		SE	5	W	5				6										Thunder & lightning E	20				
21	30.060	60	30.000	63	70	50				64	60	55.5	53		ENE	5	calm					6										Thunder & lightning E	21				
22	29.920	61	29.870	62	72	49.2				66	61.5	53	51.3		SSSE	1	SW	5				3										Thunder & lightning E	22				
23	29.810	61	29.682	63	66.3	50.3				57.5	54.8	54	51.8		W	5	SW	5				10										Thunder & lightning E	23				
24	29.532	59	29.574	57	56.5	47.6				54	52.6	48.2	46.3		S	1	NNW	5				10										Thunder & lightning E	24				
25	29.566	56	29.620	58	59.8	41				52.5	46.6	46	43		SW	5	NW	5				8										Thunder & lightning E	25				
26	29.680	55	29.764	59	68.5	42.6				55	50	55.6	50.5		NE	5	ENE	1				8										Thunder & lightning E	26				
27	29.800	60	29.650	61	68.5	46.5				59	52.6	53.5	50.5		ENE	5	SE	5				10										Thunder & lightning E	27				
28	29.474	57	29.390	56	54.5	47.5				50	48.5	52.3	51.5		NE	5	SE	5				10										Thunder & lightning E	28				
29	29.420	57	29.474	55	61.2	49				54.2	53.5	49	47		SE	5	SE	1				3										Thunder & lightning E	29				
30	29.522	56	29.508	58	62.8	46.6				56.2	54.5	48.5	46		SE	1	SE	5				8										Thunder & lightning E	30				
31	29.500	57	29.560	59	67	47				56.5	53.8	52.2	48.3		SE	1	SW	5				8										Thunder & lightning E	31				
Sums.	23	264	23	264	217	73	201			130	431	388	292	18	334		230	205				207															
Means.	29.750	55.2	29.758	57.0	62.5	46.5				54.2	51.0	47.4					0.74	0.66				6.7															
+ Total Corrections for Instru- mental Errors.																																					
+ Correc- tions for Diurnal Range.																																					
"Correc- ted Means."																																					
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							

NOTATION USED IN GENERAL REMARKS.					
a.	denotes aurora.	m.	denotes meteor.		
ci.	cirrus.	ms.	meteors.		
ci.-cu.	cirro-cumulus.	n.	nimbus.		
ci.-s.	cirro-stratus.	r.	rain.		
cu.-s.	cumulus.	h. r.	heavy rain.		
f.	funis.	c. h. r.	continued heavy rain.		
d.	dew.	s.	stratus.		
fr.	fog.	sc.	scud.		
fr.	frost.	slet.	sleet.		
h.-fr.	hoar-frost.	s.	snow.		
h.	haze.	so. ha.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
hl.	hail.	sq.	squalls.		
li. cl.	lightning.	t.	thunder.		
li. sh.	light showers.	t. s.	thunder-storm.		
lu. co.	lunar corona.	w.	wind.		
lu. ha.	lunar halo.	g.	gale of wind.		

TABLE FOR ESTIMATING FORCE OF WIND.					
Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = *29.750* - *0.071* = *29.679*
"Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = *29.758* - *0.076* = *29.682*
Mean at Station, corrected, and at 32', = *29.681*
Correction for height, *116* feet above Mean Sea-level, = *.127*
Mean, reduced to 32', and Sea-level, = *29.808*
Highest Reading, corrected for Index error, on the *20* th, = *30.072*
Lowest Do. Do., on the *28* th, = *29.390*
Difference, or Monthly Range, = *0.682*

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the *20* th, = *73.0*
Lowest in Month, corrected for Index errors, on the *2nd*, = *40.3*
Difference, or Monthly Range, = *32.7*
"Corrected Mean" of all the Highest, (Col. 5), = *62.5*
"Corrected Mean" of all the Lowest, (Col. 6), = *46.5*
Difference, or Mean Daily Range, = *16.0*
** Calculated Mean Temperature of Month, = *54.5*
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the *20* th, = *73.0*
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *62.5*
Lowest at Night, Black Bulb (corrected for Index errors), on the *2nd* th, = *40.3*
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *46.5*
Difference of above means or range ("exposed"), = *32.7*

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *52.7*
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *50.0*
Computed Temperature of Dew-Point, = *47.3*
Do. Elastic Force of Vapour, = *.327*
Do. Weight of Vapour in a Cubic Foot of Air, = *—*
Relative Humidity (Saturation = 100), = *82*
RAIN fell on *18* Days; Amount in Inches, = *3.35*

WIND.		SUMMARY.	
Direction.	No.	Mean Force.	Mean Velocity.
A.M.	<i>098560300</i>	<i>0.74</i>	
P.M.	<i>0410263312</i>	<i>0.66</i>	
Mean.	<i>069962301</i>	<i>0.70</i>	<i>0.49</i>

Observations made and Return verified by

James May

(Signed)

James May

J. May

The Hours of Observation are of Greenwich Time.

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	1	7	5	2	3	3	6	3	0	0.83	
P.M.	1	3	3	2	6	1	10	1	3	0.53	
Mean.	1	5	4	2	5	2	8	2	1	0.68	= 0.46

1888.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barone Cottage County of But, in Lat. 55° 49' 30", Long. 5° 45', Distance from Sea 110 miles.

Height of Cistern of the Barometer above Mean Sea-Level 110 feet, above Ground 3 feet.

During the MONTH of July 1889.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.										
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.															
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of hours in which it fell.	Amount in inches.	Direction.	Force.	Direction.	Force.	Readings of the H. Cup Anemometer No.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	SUNSHINE. H.ours.					No. 3 inches.	No. 12 inches.	No. 22 inches.	Temperature of Well at depth of feet, No.	Temperature at 1 fathom, and Density.	9 A.M.	9 P.M.			
		* No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.					No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°	°	°					°	°	°	°	°	°	°	°	°	°
	1	30.434	61	30.440	62	65.5	51			60	55.5	58	56.8	~	WSW	1	WNW	5				8	10											Dull & muggy	1					
	2	30.420	63	30.370	64	72.8	55			61.5	59	58.3	56.3	~	SW	5	E	5				10	—											Clear hazy & fine	2					
	3	30.350	63	30.260	62	74.6	52.8			62.6	57.2	57.5	57.5	~	NE	5	NE	5				2	2											"	3					
	4	30.250	63	30.220	63	74.8	51			62.6	58	59	56.6	~	NE	1	NE	5				—	—											"	4					
	5	30.250	62	30.180	63	69.6	57.4			59	56	62	60	~	ENE	5	NE	5				10	8											"	5					
	6	30.050	64	29.800	61	66	53			63.3	57.2	53.6	52.5	~	W	1	NW	1				1	10											Dull & damp	6					
	7	29.690	60	29.674	59	62	45.5			59.2	51.5	48	45	~	WSW	1	NNW	1				2	—												Clear & breezy chilly	7				
	8	29.696	58	29.760	59	62	40			53.8	48	52.2	49.3	~	W	1.5	NNW	1				3	8											"	8					
	9	29.796	58	29.720	60	72	48.3			58.2	54	55	54	~	SE	5	E	5				8	10											Heavy clouds	9					
	10	29.600	57	29.670	57	56.2	51.3			53.2	52.8	52	51.5	~	NE	1	NE	1				10	10											Dull & damp	10					
	11	29.806	57	29.950	56	55.6	49.5			52.3	52.2	50.5	50	~	NE	1	NE	5				10	10											"	11					
	12	30.110	59	30.080	59	64.5	48			55.6	52.8	55.6	53.5	~	NE	1	NE	5				8	1											Clear hazy & fine	12					
	13	29.964	59	29.892	60	70	51			61.5	58	58.5	51.5	~	NE	5	NW	5				5	2											"	13					
	14	29.834	58	29.760	59	63.3	44			55	52	52	50	~	WSW	5	SW	5				8	8											"	14					
	15	29.660	58	29.670	60	62.3	48.2			54	52.5	50.2	48.3	~	SW	5	SW	5				10	3											"	15					
	16	29.708	57	29.774	59	66.6	44			56.5	53.6	51.5	49.8	~	W	5	N	5				8	3											"	16					
	17	29.824	57	29.880	60	65	47.2			55	53.5	51	48.3	~	WNW	5	NNW	5				9	2											"	17					
	18	29.800	59	29.850	58	61.6	47			55	49	35.1	49.2	~	WNW	1	W	5				1	9											"	18					
	19	29.760	57	29.730	57	60.6	49			55	52	51.8	49	~	W	1	SW	5				9	10											Cloudy shower	19					
	20	29.644	58	29.524	58	66.6	49			58.2	54.4	54	53	~	E	5	NE	5				8	8											Light shower from	20					
	21	29.460	60	29.580	57	70.3	48			61.8	57.2	49	46.5	~	SE	5	NNW	1				8	8											Clear & calm	21					
	22	29.640	59	29.620	58	63.8	47			59	54.6	51.5	49	~	SW	1	SSW	5				5	8											Clear & calm	22					
	23	29.650	67	29.720	61	67.5	45.5			60	56.2	53	51	~	E	5	W	5				8	—											"	23					
	24	29.620	60	29.440	59	62.2	45			58.6	54.5	54	53.3	~	SSW	1	SW	5				9	10											"	24					
	25	29.390	57	29.620	59	64.5	49			52.5	51.5	53	50	~	SW	5	N	5				10	1											"	25					
	26	29.704	58	29.836	62	66.6	48			58	54	54.5	50.5	~	NW	1	NW	5				5	—											"	26					
	27	29.946	63	29.984	61	66	48.5			62	55	52	49	~	W	5	NW	1				1	2											"	27					
	28	29.934	58	29.940	60	61.5	48.5			54.8	53	56.5	54.5	~	WSW	5	SW	5				10	10											"	28					
	29	30.044	61	30.120	64	67.2	55			59.8	56	59	57	~	SW	5	W	5				Large S. halo am.	5	8											"	29				
	30	30.130	68	30.044	65	78.2	52			68.2	62	59.8	57	~	SE	5	—	—				5	8											"	30					
	31	30.000	70	29.940	67	75	57.5			69	56.4	62	60	~	NE	5	SW	5				2	8											"	31					
	Sums.	1716	16	1812	151	131	174			159	152	137	147	~	51	4	12					203	171																	
	Means.	29.874	309	29.460	569	1944	228			2657	150.5	131.0	63.9	2293		22.5	18.0					6.5	5.5																	
	+ Total Corrections for Instrumental Errors.																																							
	+ Corrections for Diurnal Range.																																							
	"Corrected Means."																																							
	No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									

NOTATION USED IN GENERAL REMARKS.					
a.	denotes aurora.	m.	denotes meteor.		
ci.	cirrus.	ms.	mesos.		
ci.-cu.	cirro-cumulus.	n.	nimbus.		
ci.-s.	cirro-stratus.	r.	rain.		
cu.	cumulus.	h. r.	heavy rain.		
cu.-s.	cumulo-stratus.	c. h. r.	continued heavy rain.		
d.	dew.	s.	stratus.		
f.	fog.	sc.	scud.		
fr.	frost.	sct.	sleet.		
h.-fr.	hoar-frost.	s.	snow.		
h.	haze.	so. h.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
hl.	hail.	sqs.	squalls.		
l.	lightning.	t.	thunder.		
li. cl.	light clouds.	t. s.	thunder-storm.		
li. sh.	light showers.	w.	wind.		
lu. co.	lunar corona.	g.	gale of wind.		
lu. ha.	lunar halo.				

TABLE FOR ESTIMATING FORCE OF WIND.					
Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1-5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	micro-meteor.
ci-cu.	cirro-cumulus.	n.	nimbus.
ci-s.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.
d.	dew.	s.	stratus.
f.	fog.	sc.	scud.
fr.	frost.	s.	sleet.
h. fr.	hoar-frost.	s.	snow.
h.	haze.	so. h.	solar halo.
h. d.	heavy dew.	sq.	squall.
h.	hail.	sq.	squalls.
l.	lightning.	t. s.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
lu. co.	lunar corona.	g.	gale of wind.
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TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0.5	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = 29.874 0.84 = 29.790
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = 29.870 0.85 = 29.785
 Mean at Station, corrected, and at 32", = 29.788
 Correction for height, 115 feet above Mean Sea-level, = 1.27
 Mean, reduced to 32", and Sea-level, = 29.915
 Highest Reading, corrected for Index error, on the th, = 30.440
 Lowest Do. Do., on the th, = 29.390
 Difference, or Monthly Range, = 1.050

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = 78.2
 Lowest in Month, corrected for Index errors, on the th, = 40.0
 Difference, or Monthly Range, = 38.2
 "Corrected Mean" of all the Highest, (Col. 5), = 66.3
 "Corrected Mean" of all the Lowest, (Col. 6), = 49.1
 Difference, or Mean Daily Range, = 17.2
 ** Calculated Mean Temperature of Month, = 57.7
 S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, = 78.2
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 78.2
 Lowest at Night, Black Bulb (corrected for Index errors), on the th, = 40.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 40.0
 Difference of above means or range ("exposed"), = 38.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 56.4
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 53.5
 Computed Temperature of Dew-Point, = 50.8
 Do. Elastic Force of Vapour, = 37.2
 Do. Weight of Vapour in a Cubic Foot of Air, = 82
 Relative Humidity (Saturation - 100), = 82
 RAIN fell on 12 Days; Amount in Inches, = 2.293

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	0	7	4	2	1	5	11	1		0.72	
P.M.	2	7	2	0	1	7	8	4		0.58	
Mean.	1	7	3	1	1	6	4	2	0	0.65 = 0.42	

Observations made and Return verified by

James May

(Signed)

James May

27

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Baronhottle, County of Bute, in Lat 55° 49' 50", Long 5° 45', Distance from Sea 10 miles.

Height of Cistern of the Barometer above Mean Sea-Level 116 feet, above Ground 3 feet.

During the MONTH of August 1889.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.		WIND.				CLOUDS.				THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer. No.	9 A.M.		P.M.		SUNSHINE. H. onrs.	9 h. A.M.			Temperature of WELL at depth of feet, No.	Temperature at 1 fathom, and Density.		9 A.M.	P.M.	As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Barometer. * No.	Attached Ther- mometer	Barometer. No.	Attached Ther- mometer	Max. No.	Min. No.	Max. in Min. on Sun's rays.	Exposed Black Bulbs.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.		Velocity (0-6) and Direction.	Amount (0-10) and Species.	Velocity (0-6) and Direction.	Amount (0-10) and Species.		No. 3 inches.									No. 12 inches.	No. 22 inches.	9 A.M.	P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = 29.632
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = 29.662
 Mean at Station, corrected, and at 32°, = 29.647
 Correction for height, 116 feet above Mean Sea-level, = .127
 Mean, reduced to 32°, and Sea-level, = 29.774
 Highest Reading, corrected for Index error, on the th, = 30.208
 Lowest Do. Do., on the th, = 29.170
 Difference, or Monthly Range, = 1.038

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = 72.3
 Lowest in Month, corrected for Index errors, on the th, = 42.0
 Difference, or Monthly Range, = 30.3
 "Corrected Mean" of all the Highest, (Col. 5), = 63.6
 "Corrected Mean" of all the Lowest, (Col. 6), = 49.0
 Difference, or Mean Daily Range, = 14.6
 ** Calculated Mean Temperature of Month, = 56.3
 S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =
 Lowest at Night, Black Bulb (corrected for Index errors), on the th, =
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =
 Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 53.3
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 53.2
 Computed Temperature of Dew-Point, = 57.2
 Do. Elastic Force of Vapour, = 1378
 Do. Weight of Vapour in a Cubic Foot of Air, =
 Relative Humidity (Saturation 100), = 87
 RAIN fell on 24 Days; Amount in Inches, = 6.35

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	0	5	0	1	5	4	11	5	0	0.63	
P.M.	1	1	0	1	4	1	12	4	2	0.44	
Mean.	0	3	0	1	5	2	12	5	3	0.54	0.79

Observations made and Return verified by

James Ward

(Signed)

James Ward

JA

AMH

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barone Cottage*, County of *But*, in Lat. *55° 49' 57"* Long. *5° 45'*, Distance from Sea *10* miles.

Height of Cistern of the Barometer above Mean Sea-Level *116* feet, above Ground *3* feet.

During the MONTH of *September* 188*7*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		9 h. A.M.		9 h. P.M.		Protected in Shade 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 A.M.		P.M.			9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Barometer. * No.	Attached Thermometer	Barometer. No.	Attached Thermometer	Max. No.	Min. No.	Max. in Sun. No.	Min. on Grass. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of hours in which it fell.	Amount in inches.	Direction.	Force.	Direction.	Force.	Velocity (0-10), and Direction.	Amount (0-10), and Species.		Velocity (0-10), and Direction.	Amount (0-10), and Species.	No. 3 inches.					No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
cl.	cirrus.	ms.	meteors.
ci-cu.	cirro-cumulus.	u.	nimbus.
ci-s.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.
d.	depression.	s.	stratus.
fg.	fog.	sc.	scud.
fr.	frost.	s.	sleet.
h. fr.	hoar-frost.	s.	snow.
h. s.	haze.	so. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
h.	halo.	sq.	squalls.
l.	lightning.	t. s.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
lu. co.	lunar copious.	g.	gale of wind.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1.5	Light breeze	4	Blowing hard
0.5	Very light air	2	Fresh breeze	5	Blowing a gale
1	Light air	3	Very fresh	6	Violent gale

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = *29.966* = *29.894*

"Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = *29.963* = *29.889*

Mean at Station, corrected, and at 32', = *29.892*

Correction for height, feet above Mean Sea-level, = *1.27*

Mean, reduced to 32', and Sea-level, = *30.019*

Highest Reading, corrected for Index error, on the th, = *30.440*

Lowest Do. Do., on the th, = *29.440*

Difference, or Monthly Range, = *1.000*

S-R. THERMOMETER, (in shade, etc.) Highest in Month, (corrected for Index Errors), on the th, = *71.8*

Lowest in Month, corrected for Index errors, on the th, = *34.0*

Difference, or Monthly Range, = *37.8*

"Corrected Mean" of all the Highest, (Col. 5), = *60.6*

"Corrected Mean" of all the Lowest, (Col. 6), = *46.5*

Difference, or Mean Daily Range, = *14.1*

** Calculated Mean Temperature of Month, = *53.6*

S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =

"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =

Lowest at Night, Black Bulb (corrected for Index errors), on the th, =

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =

Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *52.2*

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *50.3*

Computed Temperature of Dew-Point, = *48.4*

Do. Elastic Force of Vapour, = *1.340*

Do. Weight of Vapour in a Cubic Foot of Air, =

Relative Humidity (Saturation 109), = *87*

RAIN fell on *14* Days; Amount in Inches, = *2.39*

WIND. SUMMARY.

Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	9	2	3	3	7	5	1	0	0.72		
P.M.	1	6	1	1	3	2	4	5	0.63		
Mean.	0	8	2	0	3	2	6	5	0.68	0.46	

Each instrument tested at the Office in Edinburgh bears the stamp "S.M.S." and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.

Fabricating corrections for both capillary and Index Errors.

The Diurnal Range for Scotland is as yet unknown.

Practically, though not absolutely a minus correction.

These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.

While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."

Any observations not taken under the Conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by *James Ray*

(Signed) *James Ray* A.M.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Marone Cottage, Buteshire*, in Lat. *55° 49' 50"*, Long. *5° 45'*, Distance from Sea *10* miles.
Height of Cistern of the Barometer above Mean Sea-Level *116* feet, above Ground *3* feet.
During the MONTH of *October*, 188*9*.
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS.				Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Balls.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.				As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. No.	Min. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of hours in which it fell.	Direction.	Force.	Direction.	Force.	Velocity (0-10), and Species.	Amount (0-10), and Species.	Velocity (0-10), and Species.	Amount (0-10), and Species.	No.	No.	No.			No.	No.	No.	No.		No.	No.	No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		inches.	inches.	inches.	inches.																				3 inches.	12 inches.			22 inches.	Temperature of WELL at depth of feet, No.	Temperature at 1 fathom, and Density.	0-10.		9 A.M.	3 P.M.	Mention the hour at which Storms, including Thunder and Lightning, began and ended.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = *29.542*
"Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = *29.578*
Mean at Station, corrected, and at 32°, = *29.560*
Correction for height, feet above Mean Sea-level, = *1.27*
Mean, reduced to 32°, and Sea-level, = *29.687*
Highest Reading, corrected for Index error, on the th, = *30.300*
Lowest Do. Do., on the th, = *28.650*
Difference, or Monthly Range, = *1.650*

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = *63.0*
Lowest in Month, corrected for Index errors, on the th, = *31.5*
Difference, or Monthly Range, = *31.5*
"Corrected Mean" of all the Highest, (Col. 5), = *54.3*
"Corrected Mean" of all the Lowest, (Col. 6), = *40.3*
Difference, or Mean Daily Range, = *14.0*
** Calculated Mean Temperature of Month, = *47.3*
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =
Lowest at Night, Black Bulb (corrected for Index errors), on the th, =
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *45.8*
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *44.3*
Computed Temperature of Dew-Point, = *42.6*
Do. Elastic Force of Vapour, = *.773*
Do. Weight of Vapour in a Cubic Foot of Air, =
Relative Humidity (Saturation 100), = *89*
RAIN fell on *21* Days; Amount in Inches, = *4.03*

WIND.	SUMMARY.										Mean Force.	Mean Velocity in miles per day.
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.		
A.M.		1	10	4	3	3	4	2	4		0.68	
P.M.		1	6	4	1	2	4	2	11		0.52	
Mean.		1	8	4	2	2	3	2	7		0.60	= 0.36

Observations made and
Return verified by

(Signed)

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Barons Crag, Ruthven, County of Bute, in Lat. 55° 49' 52" Long. 5° 44' 5", Distance from Sea 10 miles.
Height of Cistern of the Barometer above Mean Sea-Level 116 feet, above Ground 3 feet. During the MONTH of November 1889.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.	SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs. Max in Min, on Sun Rays Glass.		9 h. A.M.		9 h. P.M.			No. of hours in which it fell.		Amount inches.		9 h. A.M.		9 h. P.M.							Readings of the H. Cop Anemometer.		9 A.M.		P.M.		SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No.	Amount	Direction.	Force.	Direction.	Force.	No.	Amount						Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	No.	Amount	Direction.	Force.	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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction for Temp. (Col. 2), = 29.958
"Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = 29.992
Mean at Station, corrected, and at 32', = 29.975
Correction for height, 116 feet above Mean Sea-level, = .127
Mean, reduced to 32', and Sea-level, = 30.102
Highest Reading, corrected for Index error, on the th, = 30.530
Lowest Do. Do., on the th, = 26.810
Difference, or Monthly Range, = 1.720

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 7th, = 53.8
Lowest in Month, corrected for Index errors, on the 28th, = 25.5
Difference, or Monthly Range, = 30.3
"Corrected Mean" of all the Highest, (Col. 5), = 49.5
"Corrected Mean" of all the Lowest, (Col. 6), = 39.3
Difference, or Mean Daily Range, = 10.2
** Calculated Mean Temperature of Month, = 44.4

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, =
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, =
Lowest at Night, Black Bulb (corrected for Index errors), on the th, =
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, =
Difference of above means or range ("exposed"), =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 44.0
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.9
Computed Temperature of Dew-Point, = 41.6
Do. Elastic Force of Vapour, = .263
Do. Weight of Vapour in a Cubic Foot of Air, =
Relative Humidity (Saturation = 100), = 91
RAIN fell on 25 Days; Amount in Inches, = 3.30

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Calms or Variable.
A.M.		1	2	0	2	6	5	7	6	1
P.M.		1		1	3	4	6	6	9	
Mean.		1	1	0	2	4	5	6	6	5

Observations made and
Return verified by

James May

(Signed)

James May

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Barone Cottage, Ratchedon, But*, County of *But*in Lat. *55° 49' 50"* Long. *5° 4' 5"*, Distance from Sea *10* miles.Height of Cistern of the Barometer above Mean Sea-Level *116* feet, above Ground *3* feet.During the MONTH of *December* 188*9*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS.				HYGROMETER.				Rain.		WIND.				CLOUDS.				THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs, on Sun-ray, on Grass.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		No. of clouds.	Amount (0-10).	No. of clouds.	Amount (0-10).	9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. No.	Min. No.	Max. No.	Min. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.					Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.						Amount (0-10), and Species.	Hours.	No. 3 inches.	No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 2), = *29.880*
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = *29.897*
Mean at Station, corrected, and at 32', = *29.888*
Correction for height, feet above Mean Sea-level, = *1.27*
Mean, reduced to 32', and Sea-level, = *30.015*
Highest Reading, corrected for Index error, on the th, = *30.594*
Lowest Do. Do., on the th, = *29.010*
Difference, or Monthly Range, = *1.584*

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the th, = *53.3*
Lowest in Month, corrected for Index errors, on the th, = *29.0*
Difference, or Monthly Range, = *24.3*
"Corrected Mean" of all the Highest, (Col. 5), = *46.1*
"Corrected Mean" of all the Lowest, (Col. 6), = *36.5*
Difference, or Mean Daily Range, = *9.6*
** Calculated Mean Temperature of Month, = *41.3*
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, = *53.3*
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = *46.1*
Lowest at Night, Black Bulb (corrected for Index errors), on the th, = *29.0*
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = *36.5*
Difference of above means or range ("exposed"), = *18.3*

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = *40.8*
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *39.4*
Computed Temperature of Dew-Point, = *37.7*
Do. Elastic Force of Vapour, = *.226*
Do. Weight of Vapour in a Cubic Foot of Air, = *.089*
Relative Humidity (Saturation = 100), = *89*
RAIN fell on *27* Days; Amount in Inches, = *4.94*

WIND.		SUMMARY.									
Direction.	No.	N	NE	E	SE	S	SW	W	NW	Calms or Variable.	Mean Force.
A.M.	2	2	2	4	8	7	5	1			0.84
P.M.				8	4	3	8	3	5		0.73
Mean.	1	1	1	6	6	5	7	2	2		0.78

Observations made and
Return verified by*James Kay*

(Signed)

*James Kay**MA.**AMH.*

