

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blackfriars Place Edinburgh, County of Edinburgh, in Lat. 55° 57' Long. 3° 12' Distance from Sea 2 miles.
Height of Cistern of the Barometer above Mean Sea-Level 252 feet, above Ground 4-5 feet.
During the MONTH of January 1889.
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER. <i>at 32° and Sea level</i>				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. Dry No. Wet No.				Rain.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			SEA.	OZONE. 0-10.	GENERAL REMARKS. As to occurrences 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. Min. on Grass.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		P.M.		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.		No. of hours in which it fell.	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.	No. 3 inches.					No. 12 inches.	No. 22 inches.	
		* No.		No.		No.	No.	No.	No.												9 h. A.M.												
		inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	No.						°		°	°	°					°	°	°
	1	30.201		30.384		42.8	31.9	51.3	23.5	32.0	31.6	33.2	32.9		Cal. 0	Cal. 0	63.0	7	e	0	0		Rain heavy				1						
	2	49.5		58.0		37.4	27.3	47.7	24.1	26.3	27.7	37.4	36.4	01	N	5	W	5	116.7	1	e	1	e	0.5	5	5	5	2					
	3	55.0		51.1		44.8	37.3	46.9	30.9	41.0	39.0	44.0	41.3		W	2	SW	3	367.2	8	e	8	e	1.0	1	1	1						
	4	43.7		35.6		44.4	39.3	46.2	33.7	40.3	38.1	39.7	38.0		W	3	W	3	353.0	8	e	10	e	1	1	1	1						
	5	21.3		03.9		42.1	35.7	64.0	30.4	40.2	36.3	40.7	38.2		W	2	W	2	294.2	8	cst	7	e	1	1	1	1						
	6	29.77		29.97		46.1	36.8	62.9	31.3	41.8	40.5	37.2	36.4		W	1	W	5	40.7	7	cst	4	e	1	1	1	1						
	7	93.7		83.4		38.1	27.4	38.1	24.8	28.3	28.3	37.0	36.4	03	N	5	Cal. 0	58.7	10	f	10	e	1	2	2	1.8				6			
	8	65.0		50.6		43.1	36.3	48.1	30.3	39.5	37.4	41.5	39.9		Y	5	W	2	126.0	10	e	10	e	1.5	1.5	1.5	1.5				7		
	9	26.7		21.3		43.4	35.6	46.0	29.9	41.0	40.0	36.3	35.3	03	ES	13	E	110.5	7	e	3	cst	1.5	1.5	1	1.3				8			
	10	47.0		66.2		37.3	33.7	43.3	27.8	34.1	33.4	37.2	35.3	02	W	5	Cal. 0	24.2	1	st	10	m	1.5	1.5	1.5	1.5				9			
	11	65.7		54.5		41.6	34.3	52.1	29.9	38.0	38.0	37.2	35.4		SE	5	V	5	120.4	10	m	5	e	1.5	1.0	1	1.3				10		
	12	71.5		91.4		39.0	34.4	48.1	30.3	35.8	34.8	34.8	34.4	01	E	5	V	5	52.3	10	e	9	e	2	1.5	1.5	1.5	1.5				11	
	13	30.117		30.217		37.4	33.9	42.1	31.0	35.1	34.0	36.1	34.5		W	5	W	5	58.1	10	e	10	e	1.5	1	1	1.3				12		
	14	21.0		17.9		39.1	34.3	42.6	31.7	36.6	34.3	37.2	35.2		V	5	W	5	100.8	10	e	10	e	1	1	1	1				13		
	15	29.967		29.852		40.0	36.4	45.1	31.3	37.5	35.4	39.0	38.1	03	S	1	W	5	61.6	10	e	10	m	1	1.5	1.5	1.5	1.5				14	
	16	60.0		65.6		40.8	35.2	58.1	29.8	37.0	35.0	37.1	36.4	13	S	5	Cal. 0	77.2	9	e	10	m	1.5	1	1.5	1.2				15			
	17	30.072		30.039		46.6	36.4	47.8	29.3	36.3	37.8	46.3	43.9		W	5	W	2	337.2	9	e	10	e	1	1	1	1.2				16		
	18	29.945		29.996		54.9	40.7	71.0	36.2	53.0	51.1	40.8	38.8	08	W	4	W	2.5	432.3	12	m	0	0	1.5	2.5	3	2.5		Stormy Sw. Bel. of wind 15 m. fresh		17		
	19	30.046		30.168		44.3	38.0	63.4	32.9	41.0	39.5	38.6	38.1	01	W	2	W	5	133.4	2	e	8	e	2	1	1	1.2				18		
	20	24.8		25.0		43.1	35.2	64.1	27.8	36.3	35.8	41.7	40.9		W	5	W	1	137.8	4	e	7	e	1.5	1	1	1.0				19		
	21	33.7		33.4		44.9	35.0	57.1	28.8	40.0	38.7	35.4	34.4		V	5	V	5	34.2	6	cst	0	0	1	0.5	5	5				20		
	22	55.0		45.8		42.0	30.2	64.0	26.1	31.3	30.6	37.5	37.1		V	5	W	5	97.2	2	cst	0	0	5	5	5	5				21		
	23	45.0		44.3		41.8	31.4	70.5	26.9	39.8	39.7	41.7	41.2		Cal. 0	W	1	206.0	0	0	0	0	0	0	0	1				22			
	24	41.3		37.2		47.5	40.5	64.5	34.1	44.2	43.4	45.0	43.4		W	2	W	2.5	299.0	5	e	7	e	1	1	1	1				23		
	25	25.6		16.4		49.6	44.3	79.7	40.3	46.0	44.3	47.4	45.8		W	3	W	2	303.7	10	e	10	e	1	1	1	1				24		
	26	18.6		39.5		48.1	36.4	50.2	29.9	45.6	44.6	36.8	33.2	07	W	1	NW	1.5	75.0	10	e	0	0	1	1	1	2				25		
	27	53.4		31.3		40.7	26.0	73.0	25.0	27.3	26.4	39.9	38.6	01	NW	5	W	2.5	278.2	0	0	3	m	1.5	2	2.5	7				26		
	28	17.4		29.74		46.6	39.6	66.4	33.4	43.2	41.9	45.2	42.8	12	W	3	W	2.5	342.8	6	m	10	m	0	1	1	1				27		
	29	29.269		31.6		48.1	36.2	75.0	30.9	47.4	45.3	37.2	35.1	04	W	3	NW	2	367.2	10	m	0	0	2.5	1	1	1.8		Rain fell 9.15 a.m. to 10.15 a.m. misty		28		
	30	41.7		72.6		46.9	38.0	71.3	31.7	46.1	44.6	40.0	38.1	02	W	2	W	1	300.4	6	m	0	0	1.0	1.5	1	1.4				29		
	31	50.6		54.8		52.0	40.5	63.3	34.3	48.3	47.1	46.3	43.9	01	W	3	W	3	366.4	10	m	0	0	1.5	1.5	1.5	1.5				30		
Sums.		1414.3		1515.15		1612.15	1513	149	1416	159	1612	1711	1613																				
Means.		21.206		23.845		26.849	24.90	23.5	23.2	25.4	26.8	27.6	26.84	0.64																			
+ Total Corrections for Instrumental Errors.		30.039		30.059		44.0	35.4	56.5	30.3	39.2	37.8	37.6	38.0	15																			
+ Corrections for Diurnal Range.																																	
"Corrected Means."		30.039		30.059		44.0	35.4	56.5	30.3	39.2	37.8	37.6	38.0		13		13	166.3	7.0		5.5												
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.	h.	hail.
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.
li.	hail.	sq.	squalls.
l.	lightning.	t.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
li. co.	lunar corona.	g.	gale of wind.
li. 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 \ddagger for Temp. (Col. 2), = 30.039
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger for Temp. (Col. 4), = 30.060
Mean at Station, corrected, and at 32°, = 29.773
Correction for height, 252 feet above Mean Sea-level, = 20.276
Mean, reduced to 32°, and Sea-level, = 30.049
Highest Reading, corrected for Index error, on the 2th, = 30.580
Lowest Do. Do., on the 4th, = 29.215
Difference, or Monthly Range, = 1.365

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18th, = 54.9
Lowest in Month, corrected for Index errors, on the 27th, = 26.0
Difference, or Monthly Range, = 28.9
"Corrected Mean" of all the Highest, (Col. 5), = 44.0
"Corrected Mean" of all the Lowest, (Col. 6), = 35.5
Difference, or Mean Daily Range, = 8.5
** Calculated Mean Temperature of Month, = 39.8
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 25th, = 79.7
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 56.5
Lowest at Night, Black Bulb (corrected for Index errors), on the 2th, = 24.1
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 30.4
Difference of above means or range ("exposed"), = 26.2

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 39.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 38.0
Computed Temperature of Dew-Point, = 36.2
Do. Elastic Force of Vapour, = 2.14
Do. Weight of Vapour in a Cubic Foot of Air, = 2.4625 grs
Relative Humidity (Saturation = 100), = 89
RAIN fell on 13 Days; Amount in Inches, = 0.64

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	0	2	1	2	0	17	1	6	1.27	
P.M.	0	0	1	0	0	1	20	2	7	1.26	
Mean.	1	0	1.5	0.5	1	0.5	18.5	1.5	6.5	1.265	

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.
† Embouching corrections for both capillarity and Index Errors.
‡ The Diurnal Range for Scotland is as yet unknown.
§ Practically, though not absolutely a misce correction.
|| These "Hygrometrical Deductions" are calculated from Glaisher's Hygrometrical Tables, Second Edition only.
¶ While the Diurnal Range is unknown, the Arithmetic 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 Subtitle. See over.

Observations made and Return verified by Robert C. Hoffman
at Blackfriars Place Edinburgh
the 7/1/1 reading on the 30th was entered in the Log Book as 29.826. But as it appears in Messrs Bolam & Reith's report in the Scotsman as 29.828 I must have made an error of 10 of an inch in the original entry R.M.
Greatest daily range = 16.4 on the 23rd
Robert C. Hoffman
J.H.
J.H.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blackhall, Edinburgh, County of Edinburgh, in Lat. 55° 37', Long 3° 12', Distance from Sea 2 miles.

Height of Cistern of the Barometer above Mean Sea-Level 253 feet, above Ground 4 feet.

During the MONTH of February 1889

The Hours of Observation are of Greenwich Time.

[illegible]

BAROMETER, "corrected Mean" at 9 A.M., <i>minus</i> the Correction $\uparrow\uparrow$		29.822
for Temp. (Col. 2), =		
"Corrected Mean" of Barometer at 9 P.M., <i>minus</i> the Correction $\uparrow\uparrow$		29.839
for Temp. (Col. 4), =		
Mean at Station, corrected, and at 32°,		29.830
Correction for height, 252 feet above Mean Sea-level,		-.008
Mean, reduced to 32°, and Sea-level,		29.822
Highest Reading, corrected for Index error, on the 29th,		30.436
Lowest Do. Do., on the 3 th,		28.998
Difference, or Monthly Range,		1.438

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the <u>1</u> th,.....	=	54.2
Lowest in Month, corrected for Index errors, on the <u>10</u> th,	=	21.6
Difference, or Monthly Range,	=	32.6
"Corrected Mean " of all the Highest, (Col. 5),	=	42.3
"Corrected Mean " of all the Lowest, (Col. 6),.....	=	32.4
Difference, or Mean Daily Range,	=	9.9
** Calculated Mean Temperature of Month,	=	37.4
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S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the <u>10</u> th,.....	=	76.5
"Corrected Mean, " (Col. 7), of Black Bulb, Max. in Sun,	=	70.3
Lowest at Night, Black Bulb (corrected for Index errors), on the <u>10</u> th,	=	18.2
"Corrected Mean, " (Col. 8), of Black Bulb, Min. on grass,	=	28.6
Difference, above means or range ("exposed"),	=	41.9

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11),	=	36.1
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12),	=	35.8 34.1
Computed Temperature of Dew Point,	=	33.2 31.1
Do. Elastic Force of Vapour,	=	76.8 176
Do. Weight of Vapour in a Cubic Foot of Air,	=	2.01 ^{grains}
Relative Humidity (Saturation 100),	=	90.1 82
RAIN fell on 17 Days; Amount in Inches,	=	1.19

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	4	0	5	0	0	1	10	5	2	12	1
P.M.	1	0	6	0	0	1	13	2	5	12	1
Mean.	5	0	5	0	0	1	11	4	5	12	1
	2	0	6	0	0	1	11	4	4		

Observations made and
Return verified by

(Signed) Robert C. Anderson.

$\theta = 19.4^\circ$ on the 16th

$$\begin{array}{r} 29.830 \\ 277 \\ \hline 29.553 \end{array}$$
$$\begin{array}{r} 152 \\ 25 \\ \hline 277 \end{array}$$

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Pt. Edinburgh County of Edinburghin Lat. 53° 57', Long. 3° 12', Distance from Sea 2 miles.Height of Cistern of the Barometer above Mean Sea-Level 232.3 feet, above Ground 4.3 feet.During the MONTH of March 1889.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	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.		Dry No.		Wet No.			9 h. A.M.		9 h. P.M.		9 A.M.		P.M.			9 h. A.M.							
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. No.	Min. No.	Max. in Min. on Sun-rays.	Grass.	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.					
		* No.	°	No.	°	No.	No.	No.	No.	°	°	°	°		No.	No.	No.	No.	9 h. A.M.	°	°	°		°	inches.	inches.					inches.
	1	30.035		30.023		35.0	26.5	73.3	24.3	30.1	29.8	30.0	29.0		E	5	W	0	63.3	5	c-st	10		1.0	1.0	0.5	0.7				1
	2	018		008		36.9	25.9	91.3	23.3	26.0	26.9	29.5	28.8		V	5	S	5	50.0	2	c	2		0.5	0.5	0.5	0.5				2
	3	007		004		37.8	24.2	85.8	21.0	27.7	26.3	27.8	26.5		E	5	W	0	52.1	5	c	0		0.5	0.5	0.5	0.5				3
	4	007		002		37.7	20.8	80.3	21.5	24.9	24.1	30.6	28.6		E	5	E	5	81.3	0	0	0		0.5	0.5	0.5	0.5				4
	5	006		29.923		36.1	27.9	80.4	24.3	30.2	29.0	33.0	34.3	01	E	5	W	5	110.4	10	c	2		0.5	1.0	2.5	1.3				5
	6	29.736		613		41.6	32.0	56.2	27.0	40.5	37.7	37.0	37.0	04	SW	2.0	SW	1.0	237.5	10	W	10		1.5	1.5	1.5	1.5				6
	7	461		339		39.0	36.0	51.3	32.4	36.0	36.1	36.5	36.0	02	SSW	5	W	5	60.3	10	c	10		1.5	1.5	1.5	1.5				7
	8	334		310		42.0	33.0	68.0	28.3	38.8	34.7	34.4	33.8		W	1.0	W	0	72.6	2	c	4		0.5	0.5	0.5	0.5				8
	9	320		409		44.6	33.5	65.8	30.0	37.1	34.5	37.1	34.4	02	W	1.0	W	2.0	252.1	7	c-c	2		1.0	0.5	0.5	0.7				9
	10	571		823		47.2	34.0	91.3	28.8	36.1	34.4	37.1	34.2		NW	1.0	E	5	127.3	0	0	0		1.0	1.0	1.0	1.0				10
	11	30.049		30.140		40.0	30.5	88.0	25.6	33.5	32.8	35.3	36.0		W	5	W	5	187.2	0	0	10		1.0	1.0	1.5	1.2				11
	12	117		052		52.8	34.5	97.1	33.9	46.7	39.8	47.7	46.1		W	1.5	W	2.0	300.2	6	c	10		1.5	1.5	1.5	1.5				12
	13	086		287		56.0	40.2	98.3	33.4	47.6	44.5	40.7	37.1		W	2.0	W	5	90.5	2	c-st	1		1.0	1.0	1.0	1.0				13
	14	357		483		46.0	34.3	61.9	28.3	41.0	37.0	37.9	36.4	05	E	5	E	1.0	78.4	10	W	10		3.0	1.5	1.0	1.5				14
	15	507		480		44.0	36.1	62.3	34.9	37.4	37.0	43.0	42.0	01	W	5	W	2.0	227.8	10	W	7		2.0	2.0	2.0	2.0				15
	16	250		211		55.2	40.7	102.1	34.2	48.7	44.5	41.3	38.4		SW	2.0	W	5	180.3	10	c	0		2.0	1.0	1.0	1.3				16
	17	104		004		50.4	37.2	66.1	33.0	45.0	44.3	37.4	37.4	16	W	5	E	5	65.9	10	c	10		1.5	1.5	2.0	1.8				17
	18	29.765		29.585		41.2	36.3	52.2	34.4	37.8	37.8	38.3	37.9	04	E	5	E	5	18.1	10	W	10		2.5	2.0	2.0	2.2				18
	19	343		095		43.0	37.3	52.3	33.2	38.4	38.2	38.5	38.2	27	E	5	E	5	142.4	10	c	10		1.0	1.5	1.5	1.3				19
	20	031		408		39.3	34.5	41.4	32.3	37.7	35.2	34.7	31.8	09	E	3.0	E	3.0	250.0	10	W	10		3.0	2.0	2.0	2.3				20
	21	29.749		961		38.0	31.3	67.3	27.1	33.9	31.7	34.7	32.7		E	1.5	E	5	78.50	4	c	2		1.0	1.0	1.0	1.0				21
	22	962		30.042		50.7	31.3	92.1	25.0	41.0	38.9	40.2	38.6		W	1.0	W	1.0	253.4	10	c	0		0.5	0.5	0.5	0.5				22
	23	884		29.865		57.8	35.6	104.3	32.7	44.7	42.0	50.3	48.8		WSW	2.0	WSW	2.0	365.8	7	c-st	9		2.0	1.5	1.5	1.7				23
	24	654		889		54.8	49.8	89.2	46.1	54.0	51.2	52.2	50.6	06	WSW	3.0	WSW	1.0	321.4	7	W	10		2.5	2.0	2.0	2.2				24
	25	705		104		52.8	41.0	97.0	37.4	48.4	44.8	41.7	39.1	01	W	2.0	W	2.0	267.5	0	0	0		1.0	1.0	1.5	1.2				25
	26	692		30.212		45.9	35.8	96.1	28.1	40.1	35.3	36.0	32.0		NW	1.0	E	5	115.8	6	8	1		1.0	0.5	0.5	0.7				26
	27	30.378		361		45.4	29.0	85.0	20.9	36.8	32.0	25.0	33.5		W	5	W	5	50.3	0	0	0		0.0	0.0	0.0	0.0				27
	28	254		281		53.9	36.4	93.2	29.6	44.1	41.2	49.0	47.2		W	1.5	W	1.5	125.2	10	c-st	6		1.5	1.5	1.0	1.2				28
	29	271		170		52.0	46.1	97.3	43.2	46.6	46.3	48.9	47.2		W	5	W	1.5	185.2	10	c	10		1.5	1.5	1.0	1.2				29
	30	006		29.940		53.1	40.7	84.0	34.6	49.3	47.2	41.4	39.2		W	5	W	5	90.3	10	c	0		1.5	1.5	1.5	1.5				30
	31	29.865		902		51.0	36.4	96.5	30.1	43.3	40.9	43.1	40.7		W	5	W	5	122.9	8	c-st	1		1.0	1.0	1.0	1.0				31
	Sums.	92.008		92.7431		1427.2	1073.8	2489.3	937.1	1228.6	1153.1	1211.6	1136.4	0.78	335		290	483.2	201	157			405	355	340						
	Means.	29.903		29.917		46.0	34.7	80.3	30.3	35.6	37.3	39.1	37.3		1.08		0.94	15.5	6.5	5.1											
	+ Total Corrections for Instrumental Errors.																														
	+ Corrections for Diurnal Range.																														
	+ "Corrected Means."	29.903		29.917		46.0	34.7	80.3	30.3	35.6	37.3	39.1	37.3		1.08		0.94	15.5	6.5	5.1			1.3	1.2	1.2	1.2					
	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction \ddagger for Temp. (Col. 2), = 29.903
"Corrected Mean" of Barometer at 9 P.M., minus the Correction \ddagger for Temp. (Col. 4), = 29.917
Mean at Station, corrected, and at 32', = 29.633
Correction for height, 25.2 feet above Mean Sea-Level, = -2.77
Mean, reduced to 32', and Sea-level, = 29.910
Highest Reading, corrected for Index error, on the 15th, = 30.507
Lowest Do. Do., on the 19th, = 29.030
Difference, or Monthly Range, = 1.476

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 13th, = 56.0
Lowest in Month, corrected for Index errors, on the 4th, = 20.8
Difference, or Monthly Range, = 35.2
"Corrected Mean" of all the Highest, (Col. 5), = 46.0
"Corrected Mean" of all the Lowest, (Col. 6), = 34.7
Difference, or Mean Daily Range, = 11.3
** Calculated Mean Temperature of Month, = 40.4
S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 23th, = 104.13
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 80.3
Lowest at Night, Black Bulb (corrected for Index errors), on the 27th, = 20.9
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 30.3
Difference of above means or range ("exposed"), = 58.0

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 39.3
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.3
Computed Temperature of Dew-Point, = 34.7
Do. Elastic Force of Vapour, = 2.01 in.
Do. Weight of Vapour in a Cubic Foot of Air, = 2.23 grs
Relative Humidity (Saturation = 100), = 84
RAIN fell on 12 Days; Amount in Inches, = 0.78

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		0	0	9	0	1	2	16	2	1	1.08
P.M.		0	0	9	0	1	1	17	0	3	0.94
Mean.		0	0	9	0	1	1	16	1	2	1.01
		0	0	9	0	1	2	16	1	2	1.02

Observations made and Return verified by Robert G. Profman at Blacket Pt. Edinburgh(Signed) Robert G. Profman
Greatest Daily Range = 19.4 on the 22nd

77.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Place Edin, County of Edinburgh, in Lat. 55° 57', Long. 3° 12', Distance from Sea 2 miles.

Height of Cistern of the Barometer above Mean Sea-Level 232.53 feet, above Ground 4.5 feet.

During the MONTH of April 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.		No. of hours in which it fell.		Amount in inches.		9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.						Temperature of WELL at depth of feet, 36.		Temperature and Direction of Wind.		9 A.M. 9 P.M.	
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No.	Amount	Direction.	Force.	Direction.	Force.	Readings of the H. Cap Anemometer. No.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	No.	No.	No.					Temperature	Direction	9 A.M.	9 P.M.		
		* No.	No.	No.	No.	No.	No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No.	No.	Direction.	Force.	Direction.	Force.	9 h. A.M.	Direction.	Amount	Direction.	Amount	No.	3 inches.	12 inches.					22 inches.	Feet.	Direction.	9 A.M.	9 P.M.	
		Inches.	"	Inches.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"					"	"	"	"	"	"
	1	29.771		29.786		50.3	33.9	98.9	31.2	46.4	41.3	36.9	34.2		W	1.0	W	0.5	160.0	1	C	0	0		9	12	3	6	10.0	0.0	0.0	0.3	1				
	2	86.1		90.5		44.8	34.0	87.3	26.9	40.0	34.0	37.3	33.0		W	0.5	E	0.5	70.0	8	C	7	C		0.0	0.0	0.0	0.5	0.1			2					
	3	77.1		34.5		41.8	32.3	71.2	25.5	36.2	34.3	36.7	35.2	38	0	0.0	E	1.0	70.9	10	C	8	C		1.5	1.5	1.5	1.5	1.5			3					
	4	22.8		53.7		35.2	34.6	43.2	31.7	37.3	37.3	36.0	37.0	13	E	0.5	E	1.5	25.0	10	W	10	W		2.5	1.5	1.5	1.5	1.5			4					
	5	56.4		69.3		40.7	33.9	46.5	34.3	36.2	37.3	36.8	34.6	12	E	1.0	E	0.5	15.2	10	W	8	C	ST	2.0	1.5	1.5	1.5	1.5			5					
	6	65.5		62.5		41.5	35.3	61.0	33.1	36.7	37.1	36.3	37.7	12	E	0.5	E	0.5	15.3	10	C	10	C		1.5	1.5	1.5	1.5	1.5			6					
	7	60.7		63.3		41.0	36.1	60.7	35.2	36.3	37.3	37.9	37.1	16	E	1.0	E	2.0	26.1	10	W	10	W		1.5	1.5	1.5	1.5	1.5			7					
	8	54.1		53.3		41.4	36.0	62.2	33.0	40.3	35.3	36.8	35.2	13	E	1.0	E	1.5	19.2	10	C	10	C		1.5	1.5	1.5	1.5	1.5			8					
	9	57.0		54.9		43.9	34.3	96.9	30.7	37.3	36.2	37.6	36.1	19	E	1.5	ESE	1.0	22.6	9	W	10	C		1.0	1.0	1.0	1.0	1.0			9					
	10	63.4		66.5		39.3	36.4	56.0	36.1	37.9	37.1	36.9	36.1	14	E	1.0	E	1.0	15.0	10	W	10	W		1.5	1.5	1.5	1.5	1.5			10					
	11	63.3		66.8		40.4	37.0	32.0	35.2	36.3	37.3	40.0	39.1	19	E	0.5	E	0.5	16.3	10	W	10	C		2.0	1.5	2.0	1.5	1.5			11					
	12	79.1		92.4		40.3	36.7	58.0	36.0	40.1	37.7	37.9	36.2	12	E	0.5	E	0.5	19.9	10	C	10	W		1.5	1.5	1.5	1.5	1.5			12					
	13	92.5		91.1		48.1	36.3	88.1	32.2	40.5	37.7	37.9	35.7	14	E	0.5	N	1.5	15.3	9	W	10	W		1.5	1.5	1.5	1.5	1.5			13					
	14	93.4		93.7		46.6	34.9	99.3	33.0	38.3	34.8	36.9	36.7		NE	0.5	6.0	0	5.4	10	C	0	0		1.0	0.5	0.5	0.5	0.5			14					
	15	97.4		98.5		51	31.5	114	31.5	42.1	40	44.4	41.0					8.5	4													15					
	16	98.9		93.2		53	20.2	99	36.5	47	42.8	46	43.2					18.1	11													16					
	17	93.2		30.000		61	44	102.5	35.4	51.2	45.5	44	41.					24.0	8													17					
	18	30.038		29.997		52.4	41.5	104	34.5	46	42.8	47	44	01				29.8	8													18					
	19	29.968		91.8		52	45.5	105.5	37	51	46.2	48	45	127				28.9														19					
	20	72.8		65.4		51	44	111	41	47.2	45.5	45.5	45.5	01				9.5														20					
	21	38.0		39.0		52.4	41.0	108	34.5	45	43.4	41.5	39.1	30				135.2														21					
	22	60.9		70.8		51.8	37.2	106	29.8	45.4	41	40.1	35.4	07				95.8														22					
	23	37.2		34.7		50.4	37	100	30	42.4	40.2	43	40.5	41				200														23					
	24	61.6		79.4		43	37	54	27.8	42	39.8	42	41.5	41				64.1	2													24					
	25	97.8		99.8		50	39	103	31	40.6	39.2	39.8	38.5	06				135.2															25				
	26	91.0		77.4		54	34.5	113.4	26	51.8	43	46.1	44.8	06				135.2															26				
	27	86.6		86.8		58.0	41.6	109.8	32.4	48.4	46.1	46.1	44.8	06				135.2															27				
	28	70.6		57.4		59.2	49.2	111.0	34.5	53.2	49.1	45.4	43.6	05				20.4	4														28				
	29	70.6		83.4		52.1	37.9	109.8	32.8	48.2	46.1	46.1	44.8	07				90.8															29				
	30	85.0		62.2		52.1	37.9	109.8	32.8	48.2	46.1	46.1	44.8	07				160.3															30				
	31																																	31			
Sums.		21.42		21.514		9.874	8.13	13	10	4.8	4.10	12	14.9																								
Means.		22.147		22.176		24.838	8.25	8.7	10.63	15.4	39.376	2																									
+ Total Corrections for Instrumental Errors.		29.738		29.739		48.137	9.87	5	32.9	43.5	40.5	41.3	39.2																								
+ 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.	s.	sleet.		
h.-fr.	hoar-frost.	sn.	snow.		
h.	haze.	so. ha.	solar halo.		
h. d.	heavy dew.	sq.	squall.		
h. l.	hail.	sq.s.	squalls.		
l.	lightning.	t.	thunder.		
li. cl.	light clouds.	t. s.	thunder-storm.		
li. sh.	light showers.	w.	wind.		
lu. co.	lunar corona.	z.	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	3	Fresh breeze	5	Blowing a gale
1	Light air		Very fresh	6	Violent gale

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.	hoar-frost.	s.	snow.
h.	haze.	sq. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
hl.	hall.	sq.	squalls.
l.	lightning.	t.	thunder.
li. cl.	light clouds.	t. s.	thunder-storm.
li. sh.	light showers.	w.	wind.
lu. co.	lunar corona.	z.	zephyr.
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 \ddagger for Temp. (Col. 2), =

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

Mean at Station, corrected, and at 32°, = 29.461

Correction for height, 25 feet above Mean Sea-level, = 0.277

Mean, reduced to 32°, and Sea-level, = 29.738

Highest Reading, corrected for Index error, on the 18th, = 30.038

Lowest Do. Do., on the 4th, = 29.228

Difference, or Monthly Range, = 0.810

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 17th, = 61.0

Lowest in Month, corrected for Index errors, on the 15th, = 31.5

Difference, or Monthly Range, = 29.5

"Corrected Mean" of all the Highest, (Col. 5), = 48.1

"Corrected Mean" of all the Lowest, (Col. 6), = 37.9

Difference, or Mean Daily Range, = 10.2

** Calculated Mean Temperature of Month, = 43.0

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 15th, = 114.0

"Corrected Mean" (Col. 7), of Black Bulb, Max. in Sun, = 87.5

Lowest at Night, Black Bulb (corrected for Index errors), on the 26th, = 26.0

"Corrected Mean" (Col. 8), of Black Bulb, Min. on grass, = 39.9

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

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 42.4

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.8

Computed Temperature of Dew-Point, = 36.6

Do. Elastic Force of Vapour, = 2.17

Do. Weight of Vapour in a Cubic Foot of Air, = 2.52

Relative Humidity (Saturation = 100), = 81

RAIN fell on 21 Days; Amount in Inches, = 3.16

WIND.		SUMMARY.			
Direction.	N NE E SE S SW W NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.	
A.M.					
P.M.					
Mean.					

Observations made and Return verified by

R. G. Profman - W. M. Profman after 14

(Signed)

R. G. Profman

Greatest Daily Range = 19.5 on the 15th

J. F.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blackhall Rd. Edinburgh, County of Edinburgh, in Lat. 55° 57', Long. 3 10 Distance from Sea 2 miles.Height of Cistern of the Barometer above Mean Sea-Level 253 feet, above Ground 45 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. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>		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. Cap Anemometer No.	9 h. A.M.	P. M.	SUNSHINE Hours.	9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Barometer. * No.	Attached Ther- mometer	Barometer. No.	Attached Ther- mometer	Max. No.	Min. No.	Max. in Sun's rays No.	Min. on Grass. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.					Velocity (0—10), and Species.	Amount (0—10), and Species.	Velocity (0—6) and Direction.						Amount (0—10), and Species.	No. 8 inches.	No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	microns.
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. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
hl.	hail.	sq.	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 2), ="Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{10}$ for Temp. (Col. 4), =

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 the th, =

Lowest Do. Do., on the th, =

Difference, or Monthly Range, =

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 17th, =

Lowest in Month, corrected for Index errors, on the 15th, =

Difference, or Monthly Range, =

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

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

Difference, or Mean Daily Range, =

** Calculated Mean Temperature of Month, =

S-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 15th, =

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

Lowest at Night, Black Bulb (corrected for Index errors), on the 26th, =

"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), =

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

Computed Temperature of Dew-Point, =

Do. Elastic Force of Vapour, =

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

Relative Humidity (Saturation = 100), =

RAIN fell on 2 Days; Amount in Inches, =

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.											
P.M.											
Mean.											132.1

* 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.
† 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 Arithmetic 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 Robert C. McFarlane observed up to 14th & W. M. McFarlane after.(Signed) Robert C. McFarlane.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Pl. Eden, County of Edinburgh, in Lat. 55° 57', Long. 3° 12', Distance from Sea 2 miles.
 Height of Cistern of the Barometer above Mean Sea-Level 253 feet, above Ground 45 feet. During the MONTH of May 1889.
 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		at 32° and Sea-level				Read Daily, at 9 P.M.				Dry No.		Wet No.		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.				Temperature of WELL at depth of 18 in. 26.	Temperature at Surface and Density.	9 A.M.	P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		Max. in Sun-rays.		Min. 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.		Velocity (0-6) and Direction.						Amount (0-10), and Species.		Velocity (0-6) and Direction.						Amount (0-10), and Species.		SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	No.	No.	No.	No.	No.	No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No.	No.	Direction.	Force.	Direction.	Force.	No.	9 h. A.M.	Velocity (0-6) and Direction.	Amount (0-10), and Species.					No.	9 h. P.M.	Velocity (0-6) and Direction.	Amount (0-10), and Species.					Hours.	No. 3 inches.	No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1	29.558	29.730	56.0	41.9	107.6	34.0	30.8	47.6	44.1	42.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

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.	depression.	s.	stratus.
f.	fog.	sc.	scud.
fr.	frost.	s.	sleet.
h. fr.	hoar-frost.	s. ha.	snow-halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sq.s.	squalls.
hl.	hail.	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 $\uparrow\uparrow$ for Temp. (Col. 2), = 29.818
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\uparrow\uparrow$ for Temp. (Col. 4), = 29.828
 Mean at Station, corrected, and at 32°, = 29.545
 Correction for height, 253 feet above Mean Sea-level, = .278
 Mean, reduced to 32°, and Sea-level, = 29.823
 Highest Reading, corrected for Index error, on the 21 th., = 30.102
 Lowest Do. Do., on the 28 th., = 29.473
 Difference, or Monthly Range, = 0.629

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 21 th., = 74.0
 Lowest in Month, corrected for Index errors, on the 3 th., = 39.8
 Difference, or Monthly Range, = 34.2
 "Corrected Mean" of all the Highest, (Col. 5), = 59.6
 "Corrected Mean" of all the Lowest, (Col. 6), = 44.6
 Difference, or Mean Daily Range, = 15.1
 ** Calculated Mean Temperature of Month, = 52.0
 S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 24 th., = 133.0
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 105.8
 Lowest at Night, Black Bulb (corrected for Index errors), on the 3 th., = 32.0
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 39.9
 Difference of above means or range ("exposed"), = 67.9

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 50.8
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 48.4
 ** Computed Temperature of Dew-Point, = 45.9
 ** Do. Elastic Force of Vapour, = 3.09
 ** Do. Weight of Vapour in a Cubic Foot of Air, = 3.54
 ** Relative Humidity (Saturation = 100), = 84.4
 RAIN fell on 15 Days; Amount in Inches, = 1.59

WIND.		SUMMARY.			
Direction.	N NE E SE S SW W NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.	
A.M.					
P.M.					
Mean.					<u>7.52</u>

Observations made and Return verified by W. M. McPherson and John R. McPherson

(Signed) Robert C. McPherson

Greatest daily range = 27.0 on the 21 th.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Place, Edinburgh County of Edinburgh, in Lat. 55° 54', Long. 3° 12', Distance from Sea 2 miles.
 Height of Cistern of the Barometer above Mean Sea-Level 254 feet, above Ground 4-5 feet.
 During the MONTH of June 1889.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. Dry No. Wet No.				Rain.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevailing 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 Sunrays Grass.		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.		P.M.						0-10.					
		Barometer.	Attached Ther- mometer	Barometer.	Attached Ther- mometer	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		Direction.	Force.	Direction.	Force.	Amount (0-10), and Species.	Amount (0-10), and Species.	Amount (0-10), and Species.	Amount (0-10), and Species.		No. 1 inches.	No. 2 inches.	No. 3 inches.	No. 4 inches.					No. 5 inches.	No. 6 inches.	No. 7 inches.	No. 8 inches.	No. 9 inches.	No. 10 inches.
		* 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.		Inches.		Inches.		Inches.		Inches.																									
		at 32° & Sea Level																																			
		* No.		No.		No.		No.		No.		No.																									
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.																									
		at 32° & Sea Level																																			
		* No.		No.		No.		No.		No.		No.																									
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.																									
		at 32° & Sea Level																																			
		* No.		No.		No.		No.		No.		No.																									
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.																									
		at 32° & Sea Level																																			
		* No.		No.		No.		No.		No.		No.																									
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.																									
		at 32° & Sea Level																																			
		* No.		No.		No.		No.		No.		No.																									
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.																									
		at 32° & Sea Level																																			
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SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Place, Edinburgh County of Edinburgh, in Lat. 55° 57', Long. 3° 12' Distance from Sea 2 miles.
 Height of Cistern of the Barometer above Mean Sea-Level 254 feet, above Ground 45 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. 0-10.	GENERAL REMARKS. As to occurrences of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>	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.		0 A.M.		P.M.		9 h. A.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.	Velocity (0-6) and Direction.	Amount (0-100) and Species.	Velocity (0-6) and Direction.	Amount (0-100) and Species.	No.	No.	No.	No.					No.	No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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		Inches.	"	Inches.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	1	30.427		30.430		72.8	40.2	126.0	45.7	60.7	53.8	56.4	54.3		W	0.5	6.0	0.0	37.1		2	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 2), = 29.897
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.889
 Mean at Station, corrected, and at 32', = 29.715
 Correction for height, feet above Mean Sea-level, = 178
 Mean, reduced to 32', and Sea-level, = 29.893
 Highest Reading, corrected for Index error, on the 2nd, = 30.447
 Lowest Do. Do., on the 23rd, = 29.365
 Difference, or Monthly Range, = 1.082

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3rd, = 76.4
 Lowest in Month, corrected for Index errors, on the 8th, = 43.2
 Difference, or Monthly Range, = 33.2
 "Corrected Mean" of all the Highest, (Col. 5), = 64.5
 "Corrected Mean" of all the Lowest, (Col. 6), = 49.0
 Difference, or Mean Daily Range, = 15.5
 ** Calculated Mean Temperature of Month, = 56.8
 S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 16th, = 129.3
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 111.3
 Lowest at Night, Black Bulb (corrected for Index errors), on the 24th, = 38.4
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 46.6
 Difference of above means or range ("exposed"), = 76.7

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 53.6
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 52.6
 ** Computed Temperature of Dew-Point, = 49.8
 ** Do. Elastic Force of Vapour, = 35.9
 ** Do. Weight of Vapour in a Cubic Foot of Air, = 4.02
 ** Relative Humidity (Saturation = 100), = 82
 RAIN fell on 17 Days; Amount in Inches, = 3.96

WIND.		SUMMARY.			
Direction.	N	NE	E	SE	S
A.M.	4	0	7	0	1
P.M.	2	0	7	0	1
Mean.	3	0	7	0	1

Observations made and Return verified by R. C. McPherson
10 Blacket Place Edinburgh

Greatest daily Range = 26.2 on the 6th
 (Signed) R. C. McPherson & R. Met Soc.
 The first column headed "Rain" is correct the 2nd is wrong

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Place Edinburgh, County of Edinburgh, in Lat. 55° 57', Long. 3° 12', Distance from Sea 2 miles.
Height of Cistern of the Barometer above Mean Sea-Level 254 feet, above Ground 4-5 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.				SUNSHINE. Hours.	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. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>	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/shade Grass.		9 h. A.M.		9 h. P.M.			Readings of the H. Cap Anemometer		9 A.M.		P.M.		9 h. A.M.												
		No.	Barometer.	No.	Barometer.	No.	Min.	No.	Max.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No.	Direction.	Force.	No.	Direction.	Force.	Velocity (0-10), and Species.	Amount (0-10), and Species.		No.	3 inches.	No.					12 inches.	No.	22 inches.
		* No.	inches.	* No.	inches.	No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.					No.	No.	No.
		At 32° Sea Level																															
	1	29.895		29.810		74.1	59.8	130.1	57.8	67.3	61.2	57.9	55.3		WNW	0.5	WNW	0.5	89.4	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	1		
	2	74.4		73.0		68.2	54.4	119.0	51.2	64.8	58.1	58.0	56.0	08	W	1.0	W	0.5	123.6	4	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	2		
	3	57.6		63.8		61.6	55.1	99.8	53.5	56.1	53.3	57.7	56.9	24	NW	0.5	N	1.0	86.2	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	3		
	4	83.0		81.8		68.5	51.1	120.2	49.1	53.5	54.9	56.6	53.1	02	W	1.0	WNW	0.0	82.8	8	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	4		
	5	64.0		47.8		58.3	50.9	63.9	48.3	53.5	52.4	55.3	51.4	87	E	1.0	W	0.5	39.4	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	5		
	6	45.6		63.2		61.9	51.0	92.0	49.7	56.0	54.0	54.0	53.0	26	N	0.5	WNW	0.5	47.7	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	6		
	7	82.9		96.8		66.1	51.2	117.3	50.1	57.3	54.2	53.3	54.7	06	N	0.5	WNW	0.0	27.3	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	7		
	8	30.009		91.3		64.0	51.0	107.1	49.9	57.0	54.4	52.0	51.0	30	WNW	0.5	WNW	0.0	18.0	9	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	8		
	9	29.735		67.5		63.3	51.2	100.9	49.3	55.3	54.4	56.8	55.0	24	S	0.5	WNW	0.5	60.0	9	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	9		
	10	61.6		57.2		64.9	50.0	108.2	48.2	52.0	51.5	52.8	52.1	52	W	0.5	WNW	0.0	25.0	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	10		
	11	58.1		72.8		55.7	51.6	82.8	51.2	54.2	53.7	52.9	50.5	05	N	0.5	E	1.0	95.1	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	11		
	12	58.0		86.5		62.0	50.1	115.1	49.3	54.2	49.9	53.1	52.3	N	0.5	W	1.0	110.7	10	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	12		
	13	92.0		92.4		63.3	50.6	111.2	50.1	56.3	53.3	53.1	50.0	05	W	1.0	W	1.0	120.7	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	13		
	14	74.1		64.0		60.4	49.6	89.2	46.1	54.2	53.5	53.8	53.4	08	Varz.	0.5	E	0.5	25.0	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	14		
	15	66.7		73.3		64.3	52.9	101.2	46.1	57.0	54.3	53.9	51.3	01	W	1.0	W	1.5	175.2	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	15		
	16	82.6		47.3		63.5	50.6	102.8	47.3	57.3	54.0	54.4	57.9	07	WNW	1.0	SW	1.5	234.4	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	16		
	17	48.7		64.0		62.9	52.7	120.9	49.0	56.5	52.4	53.0	50.5	02	NW	1.5	W	1.5	238.8	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	17		
	18	68.2		78.0		63.8	51.1	115.7	48.1	58.2	54.8	53.5	50.8	06	W	2.0	W	1.0	142.4	3	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	18		
	19	69.5		45.8		64.1	51.8	92.1	50.1	60.2	56.5	54.9	54.3	10.5	1.41	WNW	0.0	WNW	0.0	76.1	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	19		
	20	12.7		23.5		56.5	52.3	68.2	51.1	53.8	53.4	52.9	50.9	08	E	1.0	W	2.0	294.7	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	20		
	21	28.3		16.4		63.8	49.2	117.7	48.9	55.9	51.1	52.9	50.9	12	W	2.0	W	0.5	150.3	3	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	21		
	22	32.3		66.9		63.5	49.0	120.2	44.5	53.2	51.3	49.9	46.8	01	W	2.0	WNW	1.5	175.1	5	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	22		
	23	68.2		68.2		61.2	46.6	121.3	44.8	54.0	50.2	49.2	49.0	W	2.0	W	2.0	180.3	5	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	23		
	24	74.9		76.2		61.4	46.8	114.7	44.2	54.0	49.0	50.1	47.2	02	W	0.5	W	0.5	102.4	0	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	24		
	25	75.4		89.3		63.2	49.0	117.0	47.1	54.1	51.9	52.0	51.0	4.5	52	W	0.5	W	0.5	82.7	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	25		
	26	99.0		30.057		61.0	43.2	120.0	38.2	53.0	50.5	52.0	51.2	W	1.0	W	1.0	177.6	10	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	26		
	27	30.888		30.888		58.1	48.0	73.2	50.8	56.2	54.8	54.0	53.0	13	SW	2.0	W	2.0	241.3	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	27		
	28	29.798		29.900		64.0	54.0	120.1	50.5	57.1	56.0	60.0	58.2	06	W	2.5	WNW	2.0	248.8	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	28		
	29	29.440		30.031		63.1	56.3	99.4	55.7	57.0	56.1	58.5	56.6	09	W	3.0	SW	0.5	92.5	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	29		
	30	30.085		76.1		63.8	52.7	101.8	50.1	54.3	54.0	52.9	50.1	03	WNW	0.0	W	1.0	47.3	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	30		
	31	22.5		21.7		69.4	42.4	111.1	41.2	56.0	52.8	52.4	51.7	Varz.	0.5	W	0.5	23.0	0	10	10	10	10	10	10	10	10	10	10	min in shade highest since July 8 1887	31		
	Sums.	9.000		9.000		999	36.2	100.0	42.0	50.0	50.0	50.0	50.0	5.40					3725.2	256	227									min in shade highest since July 8 1887			
	Means.	22.765		23.296		63.2	50.8	105.7	48.7	56.4	53.7	54.3	52.5	1.02					8.3	7.3										min in shade highest since July 8 1887			
	+ Total Corrections for Instrumental Errors.																														min in shade highest since July 8 1887		
	+ Corrections for Diurnal Range.																														min in shade highest since July 8 1887		
	"Corrected Means."	29.734		29.751		63.2	50.8	105.7	48.7	56.4	53.7	54.3	52.5	1.02					8.3	7.3										min in shade highest since July 8 1887			
	No. of Column.	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	min in shade highest since July 8 1887		

NOTATION USED IN GENERAL REMARKS.					
a.	denotes anem.	m.	denotes meteor.		
ci.	cirrus.	ms.	micro.		
ci-cu.	ciro-cumulus.	n.	nimbus.		
ci-s.	ciro-stratus.	r.	rain.		
cu.	cumulus.	h. r.	heavy rain.		
cu-s.	cumulo-stratus.	c. h. r.	continued heavy rain.		
d.	de.	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.		
hl.	hail.	sqs.	squalls.		
l.	lightning.	t.	thunder.		
l. 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 hard
1.	Light air	3.	Very fresh	6	Violent gale

NOTATION USED IN GENERAL REMARKS.			
a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	microns.
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.
hl.	hail.	sq.	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

BAROMETER, "corrected Mean" at 9 A.M., the Correction $\frac{1}{100}$ for Temp. (Col. 2), = 29.734
"Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), = 29.751
Mean at Station, corrected, and at 32', = 29.464
Correction for height, 254 feet above Mean Sea-level, = 2.79
Mean, reduced to 32', and Sea-level, = 29.743
Highest Reading, corrected for Index error, on the 31 th, = 30.225
Lowest Do. Do. on the 17 th, = 29.127
Difference, or Monthly Range, = 1.098

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 1 th, = 74.1
Lowest in Month, corrected for Index errors, on the 26 th, = 42.4
Difference, or Monthly Range, = 31.7
"Corrected Mean" of all the Highest, (Col. 5), = 63.2
"Corrected Mean" of all the Lowest, (Col. 6), = 50.8
Difference, or Mean Daily Range, = 12.4
** Calculated Mean Temperature of Month, = 57.0
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 1 th, = 130.1
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 105.7
Lowest at Night, Black Bulb (corrected for Index errors), on the 26 th, = 38.2
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 48.7
Difference of above means or range ("exposed"), = 58.9

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 53.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 53.1
†† Computed Temperature of Dew-Point, = 50.9
†† Do. Elastic Force of Vapour, = 37.4
†† Do. Weight of Vapour in a Cubic Foot of Air, = 4.19
†† Relative Humidity (Saturation = 100), = 86%
RAIN fell on 26 Days; Amount in Inches, = 5.40
WIND. SUMMARY.
Direction. N NE E SE S SW W NW
A.M. 4 0 2 0 1 1 5 3 4 1.02
P.M. 1 0 2 0 0 3 1 8 1 6 0.85
Mean. 5.1 4.0 1.5 3.1 5.1 1.0 0.9 120.2
3 0 2 0 1 2 16 2 5 = 0.86 lb

Observations made and Return verified by R. C. Molesworth 10 Blacket Pl Edinburgh

(Signed) R. C. Molesworth & L. R. M. S.
Greatest Daily Range = 27.0 on the 31st

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Place, County of Edinburgh, in Lat. $55^{\circ} 57'$, Long. $3^{\circ} 12'$, Distance from Sea 2 miles.
Height of Cistern of the Barometer above Mean Sea-Level 254 feet, above Ground 4-5 feet. During the MONTH of September 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.				SUNSHINE. Hours.	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. <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>	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.	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.	Readings of the H. Cup Anemometer No.	Velocity (0-6) 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.	Temperature of Well at depth of 1 foot, 2 ft., 3 ft., 4 ft., 5 ft., and Density.	9 A.M.			10 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		* No.	inches.	* No.	inches.	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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		30.246	30.204	63.8	45.5	109.0	41.1	57.3	54.5	53.5	53.0		E	0.5	E	0.5	60.3	0	0	0	0		Meaning Rain barrel																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ns.	nebula.
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. ha.	solar halo.
h. d.	heavy dew.	sq.	squall.
hl.	hail.	sq.	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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 2), ="Corrected Mean" of Barometer at 9 P.M., minus the Correction $\frac{1}{100}$ for Temp. (Col. 4), =

Mean at Station, corrected, and at 32°, = 29.721

Correction for height, 254 feet above Mean Sea-level, = 2.79

Mean, reduced to 32°, and Sea-level, = 30.000

Highest Reading, corrected for Index error, on the 15th, = 30.499

Lowest Do. Do., on the 19th, = 29.453

Difference, or Monthly Range, = 1.046

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3th, = 69.6

Lowest in Month, corrected for Index errors, on the 22th, = 34.6

Difference, or Monthly Range, = 35.0

"Corrected Mean" of all the Highest, (Col. 5), = 59.6

"Corrected Mean" of all the Lowest, (Col. 6), = 46.4

Difference, or Mean Daily Range, = 13.2

** Calculated Mean Temperature of Month, = 53.0

S.R. THERMOMETER, Black Bulb (corrected for Index Errors), on the 3th, = 114.6

"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 98.3

Lowest at Night, Black Bulb (corrected for Index errors), on the 22th, = 28.1

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 42.6

Difference of above means or range ("exposed"), = 55.7

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 57.5

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 49.1

Computed Temperature of Dew-Point, = 46.7

Do. Elastic Force of Vapour, = 3.19

Do. Weight of Vapour in a Cubic Foot of Air, = 3.58 grs

Relative Humidity (Saturation = 100), = 84

RAIN fell on 12 Days; Amount in Inches, = 0.87

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	4	0	6	2	1	0	7	6	4	0.62	
P.M.	2	0	6	0	0	0	9	3	10	0.55	
Mean.	3	0	6	1	1	0	8	4	7	0.58	97.6

No. of wind 4.1 mls per hour = 0.31th
No. Pressure 0.08 lbs per sq footObservations made and
Return verified byR. C. Mossman
10 Blacket Place, Edin.Greatest Daily Range
= 22.0
on the 26th

(Signed)

R. C. Mossman

The average rainband is derived from
obs made at 9 a.m., noon, & 3 p.m. daily

74

10/11

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Blacket Place, Edinburgh, County of Edinburgh

, in Lat. $33^{\circ} 57'$, Long. $3^{\circ} 18'$, Distance from Sea 2 miles.

Height of Cistern of the Barometer above Mean Sea-Level 234 feet, above Ground 4-5 feet.

During the MONTH of October 1889.

The Hours of Observation are of Greenwich Time.

BAROMETER, "corrected Mean" at 9 A.M., *minus* the Correction $\frac{1}{11}$ } =
for Temp. (Col. 2), =

"Corrected Mean" of Barometer at 9 P.M., *minus* the Correction $\frac{1}{10}$ for Temp. (Col. 4), =

Mean at Station, corrected, and at 32°,..... = 29.389

Correction for height, feet above Mean Sea-level,..... 279

Mean, reduced to 32°, and Sea-level, = 29.668

Highest Reading, corrected for Index error, on the 25th,..... = 30.388

Lowest Do. Do., on the 7th,..... 28.660

Difference, or Monthly Range, 1.728

* 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.

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

+ Observations on 22 & 23rd made

At 10.48 & 10.55 PM respectively

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 10th,..... =

Lowest in Month, corrected for Index errors, on the th, = 36.1

Difference, or **Monthly Range**, = 22.1

"Corrected Mean" of all the Highest, (Col. 5), 37.4

"Corrected Mean" of all the Lowest, (Col. 6),..... 40.8

Difference, or Mean Daily Range, ... 10.0

* Calculated Mean Temperature of Month, 46.1 40.1

S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 10th,..... =

"Corrected Mean," (Col. 7), of Black Pulb, Max. in Sun, = 750

Lowest at Night, Black Bulb (corrected for Index errors), on the 27th, = 263°

"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass,..... = 36.5

Difference of above means or range ("exposed"), = 38.5

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

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = **43.8**

†† Computed Temperature of Dew-Point,	42.1
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Do. Elastic Force of Vapour,	268
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Do. Weight of Vapour in a Cubic Foot of Air,	3.0386
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Relative Humidity (Saturation = 100), 89

IN fell on 24 Days; Amount in Inches, = 3.33

[illegible]

Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	5	0	5	2	6	1	5	1	6	0.66	
P.M.	1	0	6	1	3	1	6	1	12	0.53	
Mean.	3	0	6	1	5	1	5	1	9	0.60	10.87

→ 3061 Mean Pressure was 130 lbs per sq ft
0.36

(Signed) R. C. Mossman

Greatest Daily Range
= 20.5 on the 11th

7A.

FOR TAKING METEOROLOGICAL
WITH REMARKS ON THE USE OF INSTRUMENTS.

The Council of the Society recommend that the Self-Registering Thermometers, and the Dry and Wet Hygrometers, be kept in Stevenson's four-boar-board Box, Thermometers, painted white inside and outside, and Thermometers, painted white inside and outside, be secured to four stout posts, also painted white, firmly fixed in the ground. The posts must be of such a length that they will be in position the Bulbs of the Minimum Thermometers, and of the Dry and Wet Bulb Thermometers, will be in position the Bulbs of the Minimum Thermometer, and of the Dry and Wet Bulb Thermometers, at the same height of FOUR FEET above the ground, the Maximum Thermometer being hung immediately above the Minimum Thermometer Box, to be placed over a plot of grass, and in a free open space to which the sun's rays have free access, and during the day as surrounding conditions enable the Observing Officer to secure the Thermometers are suspended on cross-bands of the Box, and face the door, which should open to the north. The Council regard the question of UNIFORMITY OF HEIGHT, and METHOD OF FIXING, and METHOD OF PROTECTING the Thermometers, and METHOD OF OBSERVATION, as of the greatest importance, and in every instance of Meteorological Observance wish to

[illegible]

sufficient for the purpose; after which the Thermometer should be placed in a slanting position, to allow the rest of the spirit still adhering to the sides of the tube to drain down to the column. But another method must be adopted, if the portion of spirit in the top of the tube be small. Heat should be applied slowly and cautiously to the top end of the tube where the reflected portion of spirit is, till, being turned into vapour, it has been driven down to the surface of the liquid, and the column of spirit can be taken down to the requisite amount of heat is by bringing the end of the tube slowly down towards a minute flame from a gas-burner; or, if gas be at hand, a piece of heated metal will serve instead.

The bulbs of the Thermometers for registering the greatest heat from the sun's rays, and the least from the earth's surface, must

Black-Balls During night, have a black coating, which may easily be made, or mounted, by the application of a mixture of lampblack and printer's ink. They are placed in shallow lacquened boxes, whose sides protect the bulbs from the wind. The Maximium should be freely exposed to the sun, and the Minim Thermometer should rest on wooden supports a few inches from the surface of the grass in an open situation. Now the sun is hot, to affect the cover of these Thermometers; the sun's heat is affected by the Maxim Thermometer by distillation. Black-balls enclosed in glass juckets may be used, being indeed preferable to the

Above. It must, however, be added, that the whole subject of a comparison of Solar and Terrestrial Radiation is not yet in a sufficiently advanced state to warrant the exclusive recommendation of any one of these methods.

The Hydrometer used at the Sodergård's Station consists of two cylinders, the lower of which is filled with water. The upper cylinder contains mercury usually, but not necessarily, mounted upon a layer of oil. The hydrometer is graduated so as to measure the apparent form of the apparatus suitably vitiate the hydrometrical observations. Observers are specially requested to attend to the following conditions—The bulbs must hang down by at least an inch from the scales and frame to wit they are

attached; the frame must be such as will bring the tubes forward by an inch from any board on which it may be suspended; the water-vapour must be covered, and altogether placed to the side, and a little distance off, so that the wind blowing over the surface may carry away the level of the wet bulb, but in no case under the bulbs; the thermometer must be of medium fineness, and fastened at the neck of the glass by the cotton, which also supplies it with water. It must be allowed to dry by the Observer, that the reading is always clean and moist, and that the vapor pure. In frosty weather, observation is a matter of much delicacy, and must be made with great care. The bulb must be observed by immersion from 15 to 30 minutes before the hour required. From the film of ice thus formed evaporation will proceed as from the moist cloth in ordinary circumstances.

In reading the thermometer great care must be taken to bring the eye exactly opposite the tip of the index or column of mercury. The reading ought to be taken to tenths of a degree, and noted in decimals. Thus, if the thermometer will be read— 39° , 40° , or $40\frac{1}{10}^{\circ}$; or again, 40° , $40\frac{1}{10}^{\circ}$, $40\frac{2}{10}^{\circ}$, according as it indicates a little under, an exact coincidence with, or acts over 40° , or $40\frac{1}{10}^{\circ}$, respectively. So also

Thermometers, 40°-2, or 40°-3, more or less, must be registered 40°-2, or 40°-3, and 40°-3, respectively. In reading Rutherford's Minimum Thermometer, the indication of that end of the index which is next to the surface of the spirit is alone noted. On opening the Thermometer Box, the Dry and Wet Bulb Thermometers are to be first read rapidly, read, inasmuch as they are readily affected by heat from the person of the Observer.

The Hygrometer is read at 9 A.M. and 9 P.M. The Self-Registering Thermometers are read at 9 P.M. only, as the thermometer is composed of ascending and descending tubes, the greatest and least degrees of temperature being indicated in the 24 hours preceding. It is not a matter of consequence in the Self-Registering Thermometers to read since, and in winter at least, the extremes may occur at any hour; and it is unnecessary to refer their occurrence to their proper meteorological day. In the Society's schedules, the indications registered on the 24th, and extending till 9 P.M. to the use of the Self-Registering Thermometer, ought to be noted.

No instrument ought to be used for Meteorological purposes until it has been carefully tested by comparison with a Standard Thermometer. When such Thermometers are used, as is not practised on the stem, but merely on an attached scale, undergo repairs they are very liable to be moved from their position on the Scale, and ought never afterwards to be used without being re-tested. The Self-Registering especially the Minimum Thermometers, ought frequently to be compared with the dry bulb of the Hygrometer. The freezing-point of each Thermometer, marked by a scratch on the tube, ought to be tested once a year, in snow or melting ice.

In selecting instruments, the following points require attention:—The divisions of the vernier of Barometers in reference to the scales, and the feet freedom of the Barometer in air; the

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To the S

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SECRETARY

Scottish Mcte

have been generally considered as more or less free from blight, rust, etc., whether planted, or in portion; whether any have suffered from blight, disease, etc. Whether the Agrivertual condition of the district generally.

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