

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Goppa, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
 Height of Cistern of the Barometer above Mean Sea-level 20 feet, above Ground _____ feet.
 During the MONTH of January 1887
 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.		Dry No. Wet No.		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 Ther-	Barometer.	Attached Ther-	Max.	Min.	Max. in Sun's rays	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No. of hours in which it fell.	Amount in inches.	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.	No.	No.					
		* No.	inches.	°	inches.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°				
	1	30.302	50	30.150	52	40.	33.			39.5	38.	39.	36.5			<i>S mod</i>	<i>S</i>			8				32.5	33.5	35.					1
	2	29.846	50	29.280	58	41.	34.			39.5	34.5	34.	35.			<i>Sm</i>				4	0			33.	33.5	35.					2
	3	29.440	50	29.140	56	41.	34.			40.5	38.	36.	35.			<i>Sm</i>	<i>Sm</i>			4	10			33.	34.	35.					3
	4	29.350	50	29.250	54	36.	30.			31.	30.	30.	28.			<i>Sm</i>	<i>W</i>			3	5			33.	34.	35.					4
	5	28.840	45	28.880	54	32.5	28.			31.		30.	29.			<i>E</i>	<i>E</i>			8	8			33	34.	35.					5
	6	28.910	43	28.930	50	35.	26.			32.		36.	35.			<i>W</i>	<i>SE</i>			10	10			33	34.	35.					6
	7	28.940	42	29.140	44	34.	31.			33.		30.				<i>SE</i>	<i>SE</i>			8											7
	8	29.144	43	29.300	50	34.5	26.			36.	35.	34.	36.			<i>SE</i>	<i>SE</i>			8	10			33.	34.	35.5					8
	9	29.420	42	29.580	52	35.	32.			33.	32.5	35.	34.5			<i>S</i>	<i>W</i>			10	10			33.	34.	35.					9
	10	29.426	42			40.5	28.			30.5	30.					<i>SE</i>				10				33	34.	35.					10
	11	29.326	44	29.490	53	43.5	24.			41.	39.	38.				<i>SE</i>	<i>SE</i>			10	0										11
	12	30.200	46	30.360	53	40.	34.			34.	35.	34.	32.			<i>SE</i>	<i>SE</i>			3	0			33	33.5	35.					12
	13	30.250	48	30.260	56	42.	33.			40.	38.	42.	41.			<i>Sm</i>	<i>Sm</i>			8	8			33.	33.5	35.					13
	14			30.480	54	42.	34.			36.	35.	33.	32.			<i>Sm</i>				4				33	34.	36.					14
	15	30.450	45	30.240	52	36.	25.			26.		32.				<i>for</i>	<i>E</i>			40.	9			32.	33.5	36.					15
	16	30.050	45	30.080	52	35.5	25.			33.5	33.	24.	26.			<i>Sm</i>	<i>W</i>			6	0			33.	34.	35.					16
	17	29.800	45	29.528	52	41.	24.			30.	28.	34.	35.5			<i>Sm</i>				6	9			32.5	33.5	35.					17
	18	29.800	46	29.860	55	52.	28.			34.	35.	34.	36.			<i>Sm</i>	<i>rain</i>			1	10			33.	33.5	35.					18
	19	29.568	52	29.946	60	53.5	36.			52.	49.	41.	38.			<i>S</i>	<i>S</i>			8	2			33.1	32.5	35.					19
	20	30.406	50	30.450	55	45.	35.			34.	35.	45.	43.			<i>Sm</i>	<i>Sm</i>			0	9			33.	34.	35.					20
	21	30.400	53	30.350	54	44.	36.			45.	42.	44.	45.			<i>Sm</i>				6				34.	35.	35.					21
	22	30.230	55	30.350	48	48.5	41.			44.	45.	44.	46.			<i>Sm</i>	<i>Sm</i>			4	1			41.5	38.	36.5					22
	23	30.380	52	30.392	58	44.	44.			44.5	43.	43.	41.			<i>W</i>	<i>W</i>			4	9			42.	39.5	38.5					23
	24	30.180	53	29.908	53	47.5	39.5			40.	38.	46.	43.			<i>SE</i>	<i>SE</i>			8	2			40.	40.	39.					24
	25	29.890	53	29.920	54	52.	39.			47.	45.	57.	49.			<i>S</i>	<i>S</i>			9				41.5	39.5	39.					25
	26	30.520	56	30.180	62	57.	46.			49.	45.5	50.	48.			<i>S</i>	<i>S</i>			8	9			41.	41.5	39.5					26
	27	30.132	55	30.040	61	52.5	44.			57.	45.	50.	46.			<i>S</i>				4				44.	42.5	41.					27
	28	30.030	58	30.050	60	52.	44.			46.	42.5	52.	46.			<i>W</i>	<i>Sm</i>			22	0			43.5	43	41.5					28
	29	30.000	60	30.148	63	54.	45.			50.	45.	51.	44.			<i>Sm</i>	<i>Sm</i>			8	8			45.5	40.	41.5					29
	30	30.054	55	29.980	63	50.	46.	44.	43.5	50.	46.	46.	44.			<i>Sm</i>	<i>Sm</i>			4	9			44.5	43.5	42.					30
	31	29.842	55	29.600	60	49.	38.	40.	38.	49.0	38.	44.0	41.			<i>W</i>	<i>Sm</i>			6	10			44.	43.	41.					31
	Sums.	29.024	153	28.588	164	166	155.5			124.0	104.5	110.5	104.5							182	148			8.0	84.5	6.5					
	Means.	29.600	46.4	29.419	56.5	45.8	54.6			39.5	38.5	40.0	38.8							7	6			36.6	36.5	36.9					
	+ Total Corrections for Instrumental Errors.	19.694	44.4	29.853	55.5																										
	+ 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.	mh.	denotes meteor.		
ci.	"	ms.	"		
ci-cu.	"	n.	"		
ci-s.	"	ciro-cumulus.	"		
cu.	"	ciro-stratus.	"		
cu-s.	"	cumulus.	"		
d.	"	cumulo-stratus.	"		
f.	"	dew.	"		
fr.	"	fog.	"		
h-fr.	"	hoar-frost.	"		
h.	"	haze.	"		
h.d.	"	heavy dew.	"		
hl.	"	hail.	"		
l.	"	lightning.	"		
li.cl.	"	light clouds.	"		
li.sh.	"	light showers.	"		
lu.co.	"	lunar corona.	"		
lu.ha.	"	lunar halo.	"		
m.	denotes meteor.	ms.	"		
n.	"	nimbus.	"		
r.	"	rain.	"		
h.r.	"	heavy rain.	"		
c.h.r.	"	continued heavy rain.	"		
s.	"	stratus.	"		
sc.	"	scud.	"		
s.	"	sleet.	"		
s.	"	snow.	"		
so.ha.	"	solar halo.	"		
sq.	"	squall.	"		
sqs.	"	squalls.	"		
t.	"	thunder.	"		
t.s.	"	thunder storm.	"		
w.	"	wind.	"		
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 $\frac{1}{1000}$ for Temp. (Col. 2), = 29.719
 Corrected Mean "of Barometer at 9 P.M., minus the Correction $\frac{1}{1000}$ for Temp. (Col. 4), = 29.782
 Mean at Station, corrected, and at 32°, = 29.781
 Correction for height, 20 feet above Mean Sea-level, = 0.23
 Mean, reduced to 32°, and Sea-level, = 29.804
 Highest Reading, corrected for Index error, on the 14th, = 30.480
 Lowest Do. Do. on the 5th, = 28.870
 Difference, or Monthly Range, = 1.610

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 29th, = 54.0
 Lowest in Month, corrected for Index errors, on the 17th, = 24.0
 Difference, or Monthly Range, = 30.0
 "Corrected Mean" of all the Highest, (Col. 5), = 43.8
 "Corrected Mean" of all the Lowest, (Col. 6), = 34.6
 Difference, or Mean Daily Range, = 9.2
 ** Calculated Mean Temperature of Month, = 39.2
 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), = 39.8
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 38.6
 # Computed Temperature of Dew-Point, = 37.0
 # Do. Elastic Force of Vapour, = 2.22
 # Do. Weight of Vapour in a Cubic Foot of Air, =
 # Relative Humidity, (Saturation = 100), = 96
 RAIN fell on Days; Amount in Inches, = 0.84 inch

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	1	2	6	11	4		1			
P.M.		1	1	5	4	8	2		10			
Mean.	0	1	1	6	5	10	3	0	5			

(Signed) Robert Minchhead

Observations made and
 Return verified by

* 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 Assayer may be here given.
 † Embracing corrections for both capillarity and Index Errors.
 ‡ The Diurnal Range for Scotland is as yet unknown.
 § These "Hygrometric Deductions" are calculated from Glaisher's Hygrometric 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.

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Glasgow, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea 4 miles.
Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet.
During the MONTH of February 1887.
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 A.M.		F.M.		9 h. A.M.									
		No.	Barometer.	Attached Thermometer.	No.	Barometer.	Attached Thermometer.	No.	Min.	No.	Max.	No.	Min.	No.	Max.	No.	Min.	No.	Max.	No.	Min.	No.	Max.	No.	Min.	No.					Max.
	1																														
	2																														
	3																														
	4																														
	5																														
	6	30.686	50	30.402	58	44.5	31			32.5	31.5	32.	31.5		2	SE	16		0	0	4	35.5	39.5	40.5							
	7	30.650	50	30.425	56	40.0	29			33.5	33.	33.5	34.		SE	2	wind		9	0	0	34.	38.	39.5							
	8	30.728	48	30.450	52	39.0	28			29	28.5	32.	30.		2	SE	16		0	0	5	33.5	36.	38.							
	9	30.708	45	30.652	53	38.5	23.5			24.5	23.5	28.	27.		rainy	rainy		0	0	6	33.	35.5	37.5								
	10	30.510		30.610	55	40.	24			33	31.5	32.	30.		SE	11		0	0	5	33.	35.	36.5								
	11	30.620	46	30.680	53	39.5	29			35.	32.5	36.	35.		2			9	10		33.	34.5	36.								
	12	30.708	46	30.700	48	44.	33.			35.	34.	46	45.		2	wind		10			33.	34.5	35.5								
	13	30.590		30.586	45	45.	33.			37.	36.	40.	39.5		2	2		10	10		33.	35.	36.								
	14	30.600	45	30.390	50	41.	36.			37.5	37.	36.5	35.		2	2		8	6		33.	35.	36.								
	15	30.570	49	30.500	54	40.	31			35.	34.	36.	35.		2			9			33.	35.	36.								
	16	30.380	49	30.438	58	42.	35			38.	36.	40.	38.		SE	SE		5	6		35.	37.	36.								
	17	30.330	50	30.040	54	48.	34			41.	40.	40.	38.		2	SE		6	5		38.	36.	36.								
	18	29.830	50	30.210	59	50.	40.			48.	45.	43.	40.		2	2		5	3		41.	39.	34								
	19	30.280	50	30.230	62	48.	33.			38.	35.5	43.	40.		2	2		3	6		36.	38.	38.								
	20	29.950	50	29.900	59	44.5	34			44.	41.	40.	37.		SE	2		4	9		40.	39.	38.								
	21	29.950	49	30.000	53	46.	34			41.	39.	43.	40.5		SE	SE		6			37.	40.	38.								
	22	29.784	50	29.650	60	52.	40.			47.	45.	50.	47.		2	2		3			41.	39.	38.								
	23	29.638	50	29.686	62	54.	46.			52.	49.	49.	45.		SE	SE		6	2		44.	41.	40.								
	24	29.620	56	29.560	62	54.	48.			51.	48.	50.	48.		SE	SE		8	10		45.	43.	41.5								
	25	29.810	53	30.320	53	47.	41			43.	41.	41.	34.		2	2		0	9		43.	43.5	41.5								
	26	30.340	52	30.330	60	56.	33.			42.	40.	42.	42.		SE	SE		4	1		38.	41.	41.								
	27	30.410		30.480	62	56.	40.			45.	41.	48.	40.		SE	SE		2	8		38.5	40.	40.5								
	28	30.440	53	30.390	60	54.	38.			41.	34.	43.	39.		2	SE		2	8		38.	39.5	40.								
	29																														
	30																														
	31																														
Sums.		7 122	19 3	7 562	14 8	1570	11 22			101	93	7 5	101								9	123	110								
Means.		30.370	49.4	30.328	56	46.6	34.9			39.3	37.3	40.4	37.9								31.8	38.0	38.1								
† 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

BAROMETER, “corrected Mean” at 9 A.M., minus the Correction†† = 30.253
for Temp. (Col. 2), = 30.253
Corrected Mean of Barometer at 9 P.M., minus the Correction†† = 30.254
for Temp. (Col. 4), = 30.254
Mean at Station, corrected, and at 32°, = 30.254
Correction for height, feet above Mean Sea-level, = 22
Mean, reduced to 32°, and Sea-level, = 30.276
Highest Reading, corrected for Index error, on the 8 th, = 30.750
Lowest Do. Do., on the 24 th, = 29.560
Difference, or Monthly Range, = 1.190

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 24 th, = 59.0
Lowest in Month, corrected for Index errors, on the 9 th, = 23.5
Difference, or Monthly Range, = 35.5
“Corrected Mean” of all the Highest, (Col. 5), = 46.6
“Corrected Mean” of all the Lowest, (Col. 6), = 34.9
Difference, or Mean Daily Range, = 11.7
** Calculated Mean Temperature of Month, = 40.7

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), = 39.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.6
Computed Temperature of Dew-Point, = 34.7
Do. Elastic Force of Vapour, = 1202
Do. Weight of Vapour in a Cubic Foot of Air, = 2.3
Relative Humidity, (Saturation = 100), = 82.4
RAIN fell on Days; Amount in Inches, = 0.95

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.											

(Signed)

Robert Muirhead

Observations made and
Return verified by

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Joppa, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground 20 feet. During the MONTH of March 1884.
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.		Readings of the H. Cup Anemometer. No. _____	9 A.M.		P.M.		SUNSHINE. Hours.	9 h. A.M.							Temperature of WELL at depth of feet. No. _____	Temperature at 1 fathom, and Density.	0-10.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Barometer. * No. _____	Attach- ed Ther- mometer	Barometer. No. _____	Attach- ed Ther- mometer	Max. No. _____	Min. No. _____	Max. in Sun/rays No. _____	Min. on Grass. No. _____	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force	Direction.	Force		Velocity (0-5). and Direction.	Amount (0-10). and Species.	Velocity (0-5). and Direction.	Amount (0-10). and Species.		No. _____ 3 inches.	No. _____ 12 inches.									No. _____ 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 30.015
for Temp. (Col. 2), = 30.070. — 0.55...
Corrected Mean of Barometer at 9 P.M., minus the Correction†† = 30.008
for Temp. (Col. 4), = 30.080. — 0.72...
Mean at Station, corrected, and at 32°, = 30.012
Correction for height, 20 feet above Mean Sea-level, = 0.23
Mean, reduced to 32°, and Sea-level, = 30.035
Highest Reading, corrected for Index error, on the 2nd th, = 30.554
Lowest Do. Do., on the 23rd th, = 29.046
Difference, or Monthly Range, = 1.508

* 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 capillarity 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.

S.-R. THERMOMETER, (in Shade, etc.), Highest in Month, (corrected for Index Errors), on the 19th, = 57.0
Lowest in Month, corrected for Index errors, on the 15th, = 25.0
Difference, or Monthly Range, = 32.0
"Corrected Mean" of all the Highest, (Col. 5), = 46.7
"Corrected Mean" of all the Lowest, (Col. 6), = 34.5
Difference, or Mean Daily Range, = 11.6
** Calculated Mean Temperature of Month, = 40.3
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), = 39.4
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 37.6
†† Computed Temperature of Dew-Point, = 35.2
†† Do. Elastic Force of Vapour, = 1206
†† Do. Weight of Vapour in a Cubic Foot of Air, =
†† Relative Humidity, (Saturation = 100), = 86
RAIN fell on Days; Amount in Inches, = 1.5 inches.

WIND.												SUMMARY.		
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.			
P.M.	2	2	3	1		3	6	1	12					
A.M.	3	2	1	1		9	5	1	9					
Mean.	3	2	2	1	0	6	6	1	10					

Observations made and
Return verified by

(Signed)

Robert Muirhead

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Edinburgh, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet. During the MONTH of April 1887.
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.		Readings of the H. Cup Anemometer. No. —	9 A.M.		P.M.		9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Barometer.	Attach- ed Ther- mometer.	Barometer.	Attach- ed Ther- mometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.		Velocity (0—10), and Direc- tion.	Amount, (0—10), and Direc- tion.	Velocity (0—10), and Direc- tion.	Amount, (0—10), and Direc- tion.	No. 3 inches.	No. 12 inches.					No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		* No.	inches.	°	inches.	°	No.	No.	No.	No.	°	°	°			°	No.	No.	No.		No.	No.	No.	No.	No.	No.					No.	No.	No.	No.	No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† for Temp. (Col. 2), = 29.969
Corrected Mean of Barometer at 9 P.M., minus the Correction†† for Temp. (Col. 4), = 29.979
Mean at Station, corrected, and at 32°, = 29.974
Correction for height, 20 feet above Mean Sea-level, = 0.23
Mean, reduced to 32°, and Sea-level, = 29.997
Highest Reading, corrected for Index error, on the 16th, = 30.650
Lowest Do. Do., on the 23th, = 29.172
Difference, or Monthly Range, = 1.478

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 5th, = 28.0
Difference, or Monthly Range, = 33.0
"Corrected Mean" of all the Highest, (Col. 5), = 50.4
"Corrected Mean" of all the Lowest, (Col. 6), = 36.9
Difference, or Mean Daily Range, = 13.5
** Calculated Mean Temperature of Month, = 43.6
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 17th, = 61.0
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 61.0
Lowest at Night, Black Bulb, (corrected for Index errors), on the 17th, = 61.0
"Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 36.9
Difference of above Means or Range ("exposed"), = 24.1

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 43.3
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 40.3
†† Computed Temperature of Dew-Point, = 36.7
†† Do. Elastic Force of Vapour, = 2.17
†† Do. Weight of Vapour in a Cubic Foot of Air, = 78
†† Relative Humidity, (Saturation = 100), = 97
RAIN fell on Days; Amount in Inches, = .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	1	5	1	5	3	4	5		
P.M.		2	5	3	4		3	3	5	2		
Mean.		1	6	2	5	1	4	3	4	4		

(Signed)

Robert A. Minchhead

Observations made and
Return verified by

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Leppa, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet. During the MONTH of May 188 4.
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, No.						Temperature at 1 fathom, and Dunsary.	9 A.M., 9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		Barometer, * No.	Attached Thermometer	Barometer, No.	Attached Thermometer	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.	Readings of the H. Cup Anemometer, No.	9 h. A.M.	Velocity (0-5), and Direction.	Amount (0-10), and Species.	Velocity (0-5), and Direction.	Amount (0-10), and Species.	No. 3 inches.									No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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BAROMETER, “corrected Mean” at 9 A.M., minus the Correction†† = 30.013
for Temp. (Col. 2), = 30.013 — 0.022 = 29.991
Corrected Mean” of Barometer at 9 P.M., minus the Correction†† = 30.035
for Temp. (Col. 4), = 30.035 — 0.022 = 29.991
Mean at Station, corrected, and at 32°, = 30.024
Correction for height, 70 feet above Mean Sea-level, = 0.022
Mean, reduced to 32°, and Sea-level, = 30.046
Highest Reading, corrected for Index error, on the 14th, = 30.502
Lowest Do. Do., on the 20th, = 29.252
Difference, or Monthly Range, = 1.250

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 17th, = 70.5
Lowest in Month, corrected for Index errors, on the 2th, = 31.0
Difference, or Monthly Range, = 39.5
“Corrected Mean” of all the Highest, (Col. 5), = 58.0
“Corrected Mean” of all the Lowest, (Col. 6), = 43.1
Difference, or Mean Daily Range, = 14.9
** Calculated Mean Temperature of Month, = 50.5
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), = 49.7
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 45.8
†† Computed Temperature of Dew-Point, = 41.4
†† Do. Elastic Force of Vapour, = 2.62
†† Do. Weight of Vapour in a Cubic Foot of Air, =
†† Relative Humidity, (Saturation = 100), = 73
RAIN fell on 10 Days; Amount in Inches, = 1.40

WIND.		SUMMARY.					
Direction.	N	NE	E	SE	S	SW	W
A.M.	2	4		2	3	1	4
P.M.	1	3	2		1	7	10
Mean.	2	4	1	2	2	1	7

Observations made and
Return verified by

(Signed)

Robert Moushead

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Edinburgh, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet.
During the MONTH of July 1887
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 Bulls.		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.		9 h. P.M.						
		Barometer.	Atta- ched Ther- mometer	Barometer.	Atta- ched Ther- mometer	Max. No.	Min. No.	Max. in Sun's rays	Min. on Grass.	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.	No. 1 inches.	No. 2 inches.	No. 3 inches.						
		* 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	30.380	64	30.284	40	49.5	57.			66.1	61.	64.	61.		2	2	W		2		8		63.5	61.5	57.	62		1			
	2	30.272	70	30.280	70	44.5	53.			66	61.	63	59		2	2			5		5		65.5	62.5	59	61		2			
	3	30.200	70	30.076	71	42.5	58.			68	63	65	63.	0.18	SW	SW			8		6		62.5	62.5	59.5	61		3			
	4	30.036	65	29.980	64	67.	56.			56	53.	58	53.		8	8			9		8		58.	62.	60.			4			
	5	30.010	61	30.140	60	60.	50.			57	49	57	48.	0.35	8				10				56	58.	58.			5			
	6	30.176	62	30.086	61	65.5	39.			56	52	53	53	0.06	16	16			5		10		58.5	58.	58.	60		6			
	7	30.080	62	30.070	66	42.5	57.			57	56.	66	63.	0.02	2	2			5		6		62.5	57.5	58.	59.2		7			
	8	30.080	68	29.870	66	82.5	56.			70	62	64.5	62		2	2					9		65.5	61.5	58.5	60		8			
	9	29.786	68	29.700	73.	62.				67	58.5	63	60.	0.29														9			
	10	29.536	68	29.690	68	69.	58.			63	58.	58	56.	0.02	SW	SW					10		63.5	61.5	58.	58		10			
	11	29.740	68	29.820	66	67.5	56.			62	57	59	57.5	0.02	SW	2			8		8		61.	60.5	58.5	59		11			
	12	29.830	70	29.770	70	73.5	58.			69	64.	63	57.	0.12	SW	SW			6		8		62	60.5	58.5	59		12			
	13	29.688	70	29.630	68	71.0	61.			62.5	61.	63	58	0.01	SW	SW			10		4		62	61.	58.5	58.2		13			
	14	29.826	70	30.020	68	70.0	56.			64.	58	59	53.		SW	SW			4		6		61.	60.	58.5	58.2		14			
	15	30.120	68	30.196	68	70.	49.			64	57	58	54.		SW	SW			5		2		59.5	59.5	58.5	59		15			
	16	30.320	66	30.360	65	65.	57.			61.	54.	57	53.	0.14	SW	2			2		10		60.	58.5	58.5	59.2		16			
	17	30.420	61	30.370	63	65.	57.			53	49	49	47		N	SE			9		0		56.5	58.5	57.5	59		17			
	18	30.304	63	30.280	65	70.5	40.			58.5	52	61	56.		N	N			5		9		56	57.5	57.5	58.2		18			
	19	30.330	66	30.360	68	76.0	52.			68.	59	64.5	61.		N	SW			4		2		61.	58.	57.	60.		19			
	20	30.390	66	30.344	67	73.0	58.			61.	53.	62	53.		N	N			9		2		60.5	58.5	58.	59		20			
	21	30.330	67	30.208	68	74.5	47.			62	57	63	59		2	2			1		9		61.	60.	58.5			21			
	22	30.040	70	30.080	68	71.0	61.			67	60.	58	53.		SW	SW			8		9		62	60	58.5	58.2		22			
	23	30.112	67	30.020	66	66.5	53.			61	56	59	53.	0.25	N	SW			9		10		59	60	58.5	58.2		23			
	24	29.788	65	29.840	65	68.0	56.5			53.5	53	53	50.		SW	N			10		0		59	59	58.	58.2		24			
	25	29.868	65	29.876	65	65.5	49.			58	53	53	52	0.05	N	N			6		10		57.5	58.5	58.	58		25			
	26	29.720	65	29.530	67	71.5	48.			65.5	56	60	59	0.16	SE	SW			2		8		60	58.5	58.			26			
	27	29.370	68	29.696	66	71.0	57.			65.	59	56	53.	0.20	SW	SW			6		2		62.	59	58.	56.2		27			
	28	29.874	66	29.880	68	69.5	53.			67	60	64	58		SW	SW			4		8		58.5	59	58.	56.2		28			
	29	29.740	68	29.890	68	67.0	61.			63	57	57	53		SW	N			7		5		60.5	59	58.	57		29			
	30	30.066	67	30.140	67	67.	52.			61	53.	53	52		N	2			2		9		59.	58.5	58	57		30			
	31	30.150	65	30.180	65	64.5	48.			60	53	52	53	0.21	2	2			6				57.5	58.5	57.5			31			
	Sums.	12156	14	12174	16	147	116			681	225	29	17	208									110	20	80	164					
	Means.	30.020	66.5	30.012	66.7	70.4	53.7			62.2	56.9	57.3	55.6									60.4	59.7	58.3	58.6						
	† 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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.919
for Temp. (Col. 2), = 30.020 - 0.101
Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.911
for Temp. (Col. 4), = 30.012 - 0.101
Mean at Station, corrected, and at 32°, = 29.915
Correction for height, 20 feet above Mean Sea-level, = 0.22
Mean, reduced to 32°, and Sea-level, = 29.937
Highest Reading, corrected for Index error, on the 7th, = 30.420
Lowest Do. Do., on the 26th, = 29.330
Difference, or Monthly Range, = 1.090

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 8th, = 82.5
Lowest in Month, corrected for Index errors, on the 6th, = 39.0
Difference, or Monthly Range, = 43.5
Corrected Mean" of all the Highest, (Col. 5), = 70.4
Corrected Mean" of all the Lowest, (Col. 6), = 53.7
Difference, or Mean Daily Range, = 16.7
** Calculated Mean Temperature of Month, = 62.0

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), = 60.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 56.3
† Computed Temperature of Dew-Point, = 52.2
† Do. Elastic Force of Vapour, = 391
† Do. Weight of Vapour in a Cubic Foot of Air, = 5
† Relative Humidity, (Saturation = 100), = 73
RAIN fell on 15 Days; Amount in Inches, = 2.08

WIND.		SUMMARY.					
Direction.	N	NE	E	SE	S	SW	W
A.M.	1	1	2	1	7	6	6
P.M.	1	1	1	3	7	7	10
Mean.	1	1	1	5	7	6	8

Observations made and
Return verified by

(Signed)

Robert Muirhead

OBSERVATIONS,

water, in cases where the observations cannot be taken daily, the observation may be taken on the 9th, 19th, and 29th of each month. The water may be taken by Sigsbee's method, or by the use of the dipnet and greater depths, always diving the thermometer to within 100 fathoms of the surface. It is also very desirable that observations be taken at the hour of Observation. It is also very desirable that observations be taken at the hour of Maximum and Minimum by Thermometers continuously immersed in the water, and stationed at points along the coast, by the method proposed by Mr. Stevenson, and already commenced at Plymouth and Liverpool. The Temperature of the water at the bottom of the water ought, when practicable, to be taken at the bottom of the water, and the Temperature of Well and of the water being used. Mention what Trawl-Papers are used, Sigsbee's or Moffatt's, etc. The Paper is affixed by a pin to a board in the Trawl, in a monometer box, and the indications registered at 9 A.M. and 9 P.M. It is desired that these indications be registered in connection with the force and direction of the wind at the time of observation, in the following manner—Thus $\frac{S.W.}{3}$ as an Ozonic entry at the salinities will indicate the Ozonic Paper was entered as 3 on the salinity and is from the S.W., and that its force on the scale 0 to 5 is 3. The force being written attached to the salinity, thus $\frac{S.W.}{3}$ and 3.

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SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Joppa, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet.
During the MONTH of August 1887
The Hours of Observation are of Greenwich Time.

ELEVATION.	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.		Dry No. Wet No.		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.						9 h. P.M.		SUNSHINE.		9 h. A.M.		Temperature of WELL at depth of feet, No.		Temperature at surface, and direction and force.		0—10.		9 A.M. 9 P.M.																																																																																																																																																																																																																																																																																																																
		Barometer. * No. ———	Attach- ed Ther- mometer	Barometer. No. ———	Attach- ed Ther- mometer	Max. No.	Min. No.	Max. in Sun's rays No. ———	Min. on Grass. No. ———	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No. ———	No. ———	Direction.	Force	Direction.	Force	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.					9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h. A.M.	Amount (0—6), and Direction.	9 h.

BAROMETER, “corrected Mean” at 9 A.M., minus the Correction†† = 30.011
for Temp. (Col. 2), = 0.001 — 0.001
Corrected Mean” of Barometer at 9 P.M., minus the Correction†† = 30.005
for Temp. (Col. 4), = 0.001 — 0.001
Mean at Station, corrected, and at 32°, = 30.008
Correction for height, feet above Mean Sea-level, = 22
Mean, reduced to 32°, and Sea-level, = 30.030
Highest Reading, corrected for Index error, on the 5th, = 30.424
Lowest Do. Do., on the 16th, = 29.860
Difference, or Monthly Range, = 0.564

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 23th, = 71.5
Lowest in Month, corrected for Index errors, on the 22th, = 42.0
Difference, or Monthly Range, = 29.5
“Corrected Mean” of all the Highest, (Col. 5), = 65.3
“Corrected Mean” of all the Lowest, (Col. 6), = 49.6
Difference, or Mean Daily Range, = 15.7
** Calculated Mean Temperature of Month, = 57.4
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), = 56.9
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 52.6
† Computed Temperature of Dew-Point, = 48.7
† Do. Elastic Force of Vapour, = 34.4
† Do. Weight of Vapour in a Cubic Foot of Air, =
† Relative Humidity, (Saturation = 100), = 74
RAIN fell on 3 Days; Amount in Inches, = 0.87

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

* 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 capillarity and Index Errors.
‡ The Diurnal Range for Scotland is as yet unknown.
†† Practically, though not absolutely a minor correction.
‡‡ These “Hygrometrical Deductions” are calculated from Glaisher’s Hygrometrical Tables, Second Edition only.
§ While the Diurnal Range is unknown, the Arithmetical Mean of Col. 5 and 6 will be entered as the “Calculated Mean Temperature.”
|| 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

(Signed)

Robert Muirhead

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Goppa, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.

Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ 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.				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.		Readings of the H. Cup Anemometer. No. —	9 A.M.		P.M.		9 h. A.M.							Temperature of Well at depth of feet. No.	Temperature at 1 fathom and Density.	0—10.
		Barometer, * No.	Attach- ed Ther- mometer	Barometer, No.	Attach- ed 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—6).	Amount (0—10), and Species.	Velocity (0—6).	Amount (0—10), and Species.	No. 8 inches.	No. 12 inches.	No. 22 inches.							
1																																1		
2		29.080	64	29.282	64	66	53			65	59	56	52			2	2					8	6	59	58	57						2		
3		29.580	62	29.680	65	66.5	52			61	53	55	52			11	2					4	10	57.5	57	57						3		
4		29.538	61	29.500	65	66	51			57	56	54	53			2	2					10	10	57	57	56.5						4		
5		29.432	61	29.250	62	66	45			57	54	53	52			2	2					9	10	57	57	56.5						5		
6		29.350	55	29.680	60	53.5	51			53	52	53	51			18	18					10	10	55	57	56						6		
7		29.830	55	30.128	60	59	48			50	45	45	44			1	18					8	8	52	53	53.5						7		
8		30.250	53	30.090	59	63.5	40			56.5	50	53.5	51.5			11	1					3	4	51	53	53						8		
9		29.880	60	29.850	62	64	46			61	56	51	48			11	11					4	8	53	54	54						9		
10		29.800	57	29.820	62	60	46			53	49	52	48		0.22	11	11					6	6	52	54	54						10		
11		29.734	58	29.480	62	61	49			50	49.5	50	48			11	2					8	8	50	52.5	53						11		
12		29.420	60	29.780	60	61	45			49	46	49	46		0.30	11	11					8	6	50	52.5	53	53.5					12		
13		29.926	53	29.944	60	58	43			50	44.5	53	48		0.20	11	11					5	10	48.5	51.5	53	54					13		
14		29.910	53	29.880	60	57	48			50	48.5	50	48		0.30	11	2					10	10	49.5	51.5	52	54					14		
15		29.852	56	29.908	62	57	45			52.5	49	52	48		0.17	11	2					5	10	50	51.5	52						15		
16		29.940	58	30.040	62	58	46			52	50	50	49			11	2					9	2	50.5	51	51.5						16		
17		30.216	56	30.436	62	58.5	47			53	50	53	51		0.08	11	2					4	6	50.5	51.5	51.5						17		
18		30.540	60	30.570	62	61.0	42			57	49	53	52			2	2					10	8	49	51.5	53	54					18		
19		30.542	58	30.460	62	62.5	46			53.5	50	53	51			11	11					10	—	49	51	51.5						19		
20		30.440	58	30.490	65	63	46			58.5	52	57	50			2	6					1	10	50.5	51.5	51.5	53.5					20		
21		30.480	58	30.428	62	56.5	50			53	51	53	51			2	2					10	10	51.5	51.5	51.5	53.5					21		
22		30.404	60	30.420	62	60.5	52			55	51.5	52	49			2	3					10	6	52	52	52	53.5					22		
23		30.320	58	30.620	65	61.0	46			53.5	51	53	51			11	6					8	10	50	51.5	52	53.5					23		
24		30.620	58	30.460	57	56.5	49			57	48	48	48			2	2					9	9	51.5	52	52	53.5					24		
25		30.280	60	29.980	65	58.5	49			56	53	54	52		0.05	11	11					8	9	51.5	51.5	52	53.5					25		
26		29.608	61	29.500	65	60.0	54			57	55	50	48			11	11					10	4	53.5	52.5	52.5	53.5					26		
27		29.326	57	29.240		53	43			57	46	46	39			11	11					2	4	48.5	51.5	52						27		
28		29.340	53	29.308	61	54	34			46	44	47	46			11	11					10	10	45	48	51						28		
29		29.606	57	29.900	62	57	45			54	51	54	53			6	6					6	8	48	50	51						29		
30		30.042	57	30.113						53	51	51	—			11	11					6		52	51	52						30		
31																																31		
Sums.		154.5	2686	153.5	2604	47	186			1125	180	465	2605		1.32									115	96	94								
Means.		29.927	58.1	29.967	61.7	59.4	46.7			53.9	50.6	51.6	49.3											51.6	53.2	53.2	55.1							
† 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			

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.848
for Temp. (Col. 2), = 29.927 - 0.079
Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.830
for Temp. (Col. 4), = 29.917 - 0.087
Mean at Station, corrected, and at 32°, = 29.839
Correction for height, 20 feet above Mean Sea-level, = 0.22
Mean, reduced to 32°, and Sea-level, = 29.861
Highest Reading, corrected for Index error, on the 21 th, = 30.620
Lowest Do. Do., on the 10 th, = 29.080
Difference, or Monthly Range, = 1.540

* 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.
† Enhancing corrections for both capillarity and Index errors.
†† The Diurnal Range for Scotland is as yet unknown.
‡ 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.

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3 th, = 66.5
Lowest in Month, corrected for Index errors, on the 28 th, = 37.0
Difference, or Monthly Range, = 29.5
"Corrected Mean" of all the Highest, (Col. 5), = 59.4
"Corrected Mean" of all the Lowest, (Col. 6), = 46.7
Difference, or Mean Daily Range, = 12.7
** Calculated Mean Temperature of Month, = 53.0

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), = 52.8
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 50.0
† Computed Temperature of Dew-Point, = 47.2
† Do. Elastic Force of Vapour, = 0.334
† Do. Weight of Vapour in a Cubic Foot of Air, =
† Relative Humidity, (Saturation = 100), = 81
RAIN fell on 7 Days; Amount in Inches, = 1.32

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

Observations made and
Return verified by

(Signed) Robert Muirhead

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Edinburgh, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.

Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet.

During the MONTH of October 1888

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.	No.	9 h. A.M.		9 h. P.M.		Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	9 h. A.M.			Temperature of Well at depth of feet. No.						Temperature at 1 fathom and Drift.	9 A.M. 9 P.M.																		
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. in Sun/rays No.	Min. on Grass. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.					No. 3 inches.	No. 12 inches.	No. 22 inches.																										
																																			inches.	°	inches.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1	30.280		30.350	62	56							50.5	50.	0.40		2		2			4											1																			
	2	30.350	57	30.460	66	57	43.			52.	48.	57	50.				12		12			9		6	50.	57.	57.							2																		
	3	30.460	61	30.450	65	62.	48.			54.	49.	49	47.				12		12			8		0	57.	57.	57.							3																		
	4	30.458	60	30.430	65	60.	38.	60.28		50.	48.	48	49.				2		2			2		0	46.	50.	51.							4																		
	5	30.400	56	30.330	65	57.	39.			48.	46	52	49.				2		2			0		10	44.5	48.5	50.		52.8					5																		
	6	30.312	60	30.160		58.	48.			53.	50.						12		12			8		10									6																			
	7	30.010	60	30.040	62	58.5	51.			53	50	44.	42.	0.45			12		12			8		10	50.	50.	50.						7																			
	8	30.040	55	30.000	55	50	42.			44.	41.	45.	42.				12		12			5		6	45.5	49	50.						8																			
	9	29.910	50	29.800	50	46.	40.			43.	42.	45.	43.	0.50			12		12			10		10	44.	48.	49.						9																			
	10	29.910	45	29.804	55	48.5	38.			45.	43.	43.	41.	0.04			12		12			10		8	43.	46	48.						10																			
	11	29.930	48	29.736	52	44.5	36.			40.	38.	38	34.				12		12			2		2	39.5	44.5	47.		48.8				11																			
	12	29.650	46	29.772	58	44.	31.			38.	34.	44.	41.				12		12			6		2	36.5	43	46.		48.5				12																			
	13	29.980	50	30.030	53	49.	34.			44.	41.	43	38.				12		12			2		2	41.	43	45.		48.				13																			
	14	29.980	50	30.100	55	43.5	40.			43.	39.5	40.	36.				12		12						41.5	43	44.5						14																			
	15	30.270	50	30.380	53	50.	34.			40.	36.	42	40.				12		2			0		0	34.5	42.5	44.5						15																			
	16	30.412	50	30.328	62	57.	34.			43.5	40.	47.	46.				12		12			0		0	38.5	41.5	43.5						16																			
	17	30.590	53	30.570	60	53.5	37.			43.5	43.	50.	47.				2		12			0		0	39.5	42.5	44.						17																			
	18	30.490	56	30.450	60	53.5	43.			57.	49.5	50.	48.				12		12			8			45.	43.5	44.						18																			
	19	30.310	57	30.152	60	53.5	48.			52.	49.5	54.	50.				12		12			6		8	46.	45.	45.						19																			
	20	30.314	50	30.430	60	53.5	44.			47.	43.	44.	41.				12		12			4		0	45.	46.	45.						20																			
	21	30.560	53	30.572	55	49.	36.			41.5	38.5	36.	33.				12		12			4		0	41.5	44.5	46.						21																			
	22	30.446	50	30.302	62	56.	34.			48.	44.	48.	44.				12		12			6		6	39.	43	45.						22																			
	23	30.052	58	29.976	62	52.5	47.			57.	49.5	43					12		12			10		10	45.	40.	44.5		48.2				23																			
	24	30.230	50	30.516	53	40.5	38.			37.5	34.	35.	32.				12		12			8		0	39.	44.	44.5		47.				24																			
	25	30.620	46	30.450	49	46.	34.			38.5	33.	36.	34.				12		2			8		5	36.5	41.5	44.		44.8				25																			
	26	30.184	47	29.830	51	53.	34.			46.	40.5	50.	48.				12		12			8			40.	41.	43.						26																			
	27	29.740	53	29.590	62	57.	40.			53.	53.	52.					12		12			9		8	47.	43	44.						27																			
	28	29.570	56	29.486	63	53.	47.			49.	45.	46.		0.10			12		12			1		0	46.	45.	44.						28																			
	29	29.354	55	29.380		49.	41.			45.	42.	42.	41.	0.02			12		12			4		8	42.5	44.5	45.						29																			
	30	29.220	53	29.200	60	49.	38.			41.	39.	42.	40.	0.20			12		12			8		2	41.	43.5	44.5		46				30																			
	31	29.294	53	29.490	60	47.	34.			43.	40.	39	37.	0.04			12		12			10		0	39.5	42.5	44.						31																			
	Sums.	1312	866	1314	866	590	296			1785	820	1525	713	1.73												146	105	113		53																						
	Means.	30.092	52.9	30.070	58.6	51.9	39.9			46.0	42.7	45.1	42.5													42.9	44.8	45.8		48.0																						
	† 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																					

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 30.026
for Temp. (Col. 2), = 30.092 - 0.066
Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 30.011
for Temp. (Col. 4), = 30.070 - 0.059
Mean at Station, corrected, and at 32°, = 30.018
Correction for height, 20 feet above Mean Sea-level, = 0.023
Mean, reduced to 32°, and Sea-level, = 30.041
Highest Reading, corrected for Index error, on the 7 th, = 30.590
Lowest Do. Do., on the 30 th, = 29.200
Difference, or Monthly Range, = 1.390

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3 d, = 62.0
Lowest in Month, corrected for Index errors, on the 12 th, = 31.0
Difference, or Monthly Range, = 31.0
Corrected Mean" of all the Highest, (Col. 5), = 51.9
Corrected Mean" of all the Lowest, (Col. 6), = 39.9
Difference, or Mean Daily Range, = 12.0
Calculated Mean Temperature of Month, = 45.9

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), = 45.6
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.6
Computed Temperature of Dew-Point, = 39.2
Do. Elastic Force of Vapour, = 2.40
Do. Weight of Vapour in a Cubic Foot of Air, =
Relative Humidity, (Saturation = 100), = 78
RAIN fell on 8 Days; Amount in Inches, = 1.75

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	3	3				8	9	3	5		
P.M.	3	4				4	10	3	6		
Mean.	3	4	0	0	0	6	10	3	5		

Observations made and
Return verified by

(Signed)

Robert Munro

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Golfmuir, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.
 Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ 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.		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. No.	Temperature at 1 fathom and Drusify.						0-10.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Barometer. * No.	Attach- ed Ther- mometer	Barometer. No.	Attach- ed Ther- mometer	Max. No.	Min. No.	Max. in Sun/rays No.	Min. on Grass. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direc- tion.	Force	Direc- tion.	Force	Velocity (0-10), and Direc- tion.	Amount (0-10), and Direc- tion.	Velocity (0-10), and Direc- tion.	Amount (0-10), and Direc- tion.	No. 8 inches.	No. 12 inches.								No. 22 inches.	9 A.M., 9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction ++ = 29.635
 for Temp. (Col. 2), = 27.674 = 29.635
 Corrected Mean "of Barometer at 9 P.M., minus the Correction ++" = 29.661
 for Temp. (Col. 4), = 29.738 = 29.661
 Mean at Station, corrected, and at 32°, = 29.648
 Correction for height, feet above Mean Sea-level, = 0.23
 Mean, reduced to 32°, and Sea-level, = 29.671
 Highest Reading, corrected for Index error, on the 15th, = 30.330
 Lowest Do. Do., on the 3th, = 28.596
 Difference, or Monthly Range, = 1.734

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 26th, = 53.0
 Lowest in Month, corrected for Index errors, on the 16th, = 28.5
 Difference, or Monthly Range, = 24.5
 "Corrected Mean" of all the Highest, (Col. 5), = 45.2
 "Corrected Mean" of all the Lowest, (Col. 6), = 37.4
 Difference, or Mean Daily Range, = 7.8
 ** Calculated Mean Temperature of Month, = 41.3
 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), = 41.2
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 39.4
 # Computed Temperature of Dew-Point, = 37.2
 # Do. Elastic Force of Vapour, = 2.21
 # Do. Weight of Vapour in a Cubic Foot of Air, ... =
 # Relative Humidity, (Saturation = 100), = 86
 RAIN fell on 13 Days; Amount in Inches, = 2.38

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	6	1	4	3	6	3	0	6		
P.M.	1	5	1	3	1	6	2	1	10		
Mean.	1	5	1	4	2	6	2	1	8		

(Signed) Robert Muirhead

Observations made and
 Return verified by

SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Glasgow, County of Edinburgh, in Lat. _____, Long. _____, Distance from Sea _____ miles.

Height of Cistern of the Barometer above Mean Sea-level _____ feet, above Ground _____ feet.

During the MONTH of December 1887.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				WIND.				RAIN.		CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		9 h. A.M.		9 h. P.M.		Protected in Shade, affecting above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer.		No. of hours in which it fell.	Amount in inches.	9 A.M.		P.M.		9 h. A.M.							Temperature of Well at depth of feet. No.	Temperature at 1 fathom, and Density.	0-10.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. in Sun's rays No.	Min. on Glass. No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	No. of hours in which it fell.	Amount in inches.			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.	9 A.M.	9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction++ = 29.684
for Temp. (Col. 2), = 29.728 - 0.044

"Corrected Mean" of Barometer at 9 P.M., minus the Correction++ = 29.671
for Temp. (Col. 4), = 29.744 - 0.073

Mean at Station, corrected, and at 32° = 29.678

Correction for height, feet above Mean Sea-level, = 0.23

Mean, reduced to 32°, and Sea-level, = 29.801

Highest Reading, corrected for Index error, on the 29th, = 30.330

Lowest Do. Do., on the 6th, = 28.880

Difference, or Monthly Range, = 1.450

* 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.

‡ 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.

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 2th, = 52

Lowest in Month, corrected for Index errors, on the 22th, = 23

Difference, or Monthly Range, = 29

"Corrected Mean" of all the Highest, (Col. 5), = 42.1

"Corrected Mean" of all the Lowest, (Col. 6), = 32.8

Difference, or Mean Daily Range, = 9.3

** Calculated Mean Temperature of Month, = 37.4

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), = 38.2

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 36.5

† Computed Temperature of Dew-Point, = 34.3

† Do. Elastic Force of Vapour, = .197

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

† Relative Humidity, (Saturation = 100), = 86

RAIN fell on 7 Days; Amount in Inches, = 1.09

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		1	0	0	3	2	4	9	1	11	
P.M.		5	2	0	2	2	4	10	2	4	
Mean.		3	1	0	3	2	4	9	2	7	

Observations made and
Return verified by

(Signed)

Robert Muirhead

