

## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Aberdeen, County of Aberdeen, in Lat. 59° 7' Long. 2° 6' W. Distance from Sea 1 mile.  
Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 23 feet. During the MONTH of January 1878.  
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS.				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, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	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.	Direction.	Force.	Direction.	Force.			Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No. 3 inches.	No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		No. 45.	No. 45.	No.	No.	No.	No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	9 h. A.M.	No.	No.	No.	No.	No.	No.	No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction<sup>††</sup> for Temp. (Col. 2), = 29.918  
for Temp. (Col. 2), = 29.918 ..... - .023 .....  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction<sup>††</sup> for Temp. (Col. 4), = 29.915  
for Temp. (Col. 4), = 29.915 ..... - .023 .....  
Mean at Station, corrected, and at 32° ..... = 29.887  
Correction for height, 66 feet above Mean Sea-level, ..... = + .0074  
Mean, reduced to 32°, and Sea-level, ..... = 29.9618  
Highest Reading, corrected for Index error, on the 31 th, 9 P.M. = 30.502  
Lowest Do. Do. on the 23 d., 9 P.M. = 28.930  
Difference, or Monthly Range, ..... = 1.572

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Error), on the 16 th, ..... = 51.5  
Lowest in Month, corrected for Index error, on the 25 th, ..... = 25.3  
Difference, or Monthly Range, ..... = 26.2  
"Corrected Mean" of all the Highest, (Col. 5), ..... = 41.6  
"Corrected Mean" of all the Lowest, (Col. 6), ..... = 32.35  
Difference, or Mean Daily Range, ..... = 9.35  
\*\* Calculated Mean Temperature of Month, ..... = 37.0  
S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Error), on the th, ..... =  
"Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, ..... =  
Lowest at Night, Black Bulb, (corrected for Index error), 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), ..... = 37.62  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), ..... = 35.62  
# Computed Temperature of Dew-Point, ..... = 32.9  
# Do. Elastic Force of Vapour, ..... = .187  
# Do. Weight of Vapour in a Cubic Foot of Air, ... = 2.16  
# Relative Humidity, (Saturation = 100), ..... = 84  
RAIN fell on 15 Days; Amount in Inches, ..... = 1.408

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Mean Force.
A.M.	2	1	0	0	1	3	8	19	6	0.89
P.M.	3	1	0	0	0	8	3	4	9	1.02
Mean.	2	1	0	0	0	5	5	7	7	0.96 = 0.92

Observations made and  
Return verified by

James Dale  
Teacher, Gordon's Hospital

(Signed)

James Dale

Greatest Daily Range = 16.7 on the 21<sup>st</sup>



Academy  
January, 1878

BOOK POST.

Mr ALEXANDER BUCHAN,  
Secretary of the Meteo

*Secretary of the Meteorological Society of Scotland*

EDINBURGH.

Have the goodness also to state any information you may be able to collect relative to the crops of grain, Hay, Potatoes, Turnips, Fruits, etc., whether plentiful, or in perfection; whether any have suffered from blight disease, etc. Whether Epidemic, and the prevalent condition of the district generally.

(By Order)

A. B.

Printed December 1874

[illegible]

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

[illegible]







Wooden  
Feb. 1878-

Mr ALEXANDER BUCHAN.

*Secretary of the Meteorological Society of Scotland.*

EDINBURGH.

Have the goodness also to state any information you may be able to collect relative to the crops of grain, hay, potatoes, turnips, fruits, etc., whether plentiful, or in perfection; whether any have suffered from blight, disease, etc. Whether the potato disease prevails among cattle; and the Agricultural condition of the district generally.

SHRUBS, ETC.	Barberry, . . . Bouree or Elder, . . . Hazel, . . . Broom, . . . Hawthorn, . . . Holly, . . . Laburnum, . . . Lilac, . . . Mezerion, . . . Mountain Ash or Rowan, . . . Rhododendron Ponticum, . . . Vibn,
First in Blossom.	Apple, . . . Black Currant, . . . Cherry, . . . Gean, . . . Groseberry, . . . Pear, . . . Plum, . . . Strawberry, . . .
FRUITS.	
First in Blossom generally.	
First in Rep.	Cuckoo, . . . Curtew, . . . Hodcs-Swallow, . . . Lapwing, . . . Plover, . . . Sand-Martin, . . . Starling, . . . Swan, . . . Rail or Corn Crane, . . .
MIGRATORY BIRDS.	
First Arrival.	
Departure.	

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.

FOREST TREES.		In flower.	In leaf buds.	In leaf.	Dressed or bleached leaves.	Use of	Barley, &c., mentioning variety.	Oats, Beans, Peas, Potatoes, Turnips, Rye Grass, &c.	Sowing or Planting.	Appearing above ground.	In ear or flower.	First cut.
Alder,	Asb,	Beech,	Birch,	Elm,	Larch,	Time,	Oak,	Sycamore or Plane,				

474.



# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Aberdeen, County of Aberdeen, in Lat. 59° 4', Long. 2° 6' W., Distance from Sea 1 miles.

Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 25 feet.

During the MONTH of March 187 8.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. —				WIND.				RAIN.		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.		Readings of the H. Cap Anemometer.		No. of hours in which it fell.	Amount in inches.	9 A.M.		9 P.M.		SUNSHINE. Hours.	9 h. A.M.						Temperature of Wet Bulb, at each of feet, 30.	Temperature and Dew-Point.	9 A.M. 9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		Barometer. No. —	At- tached Ther- mometer No. —	Barometer. No. —	At- tached Ther- mometer No. —	Max. No.	Min. No.	Max. in Sun- shade No.	Min. on Grass. No.	Dry bulb. No.	Wet bulb. No.	Dry bulb. No.	Wet bulb. No.	Direction.	Force.	Direction.	Force.	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. 1 inches.									No. 2 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.855  
 for Temp. (Col. 2), = 29.892 - 0.037 = 29.855  
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.855  
 for Temp. (Col. 4), = 29.892 - 0.037 = 29.855  
 Mean at Station, corrected, and at 32°, = 29.855  
 Correction for height, 66 feet above Mean Sea-level, = 0.074  
 Mean, reduced to 32°, and Sea-level, = 29.931  
 Highest Reading, corrected for Index error, on the 16 th, = 30.604  
 Lowest Do. Do. on the 31 st, = 28.878  
 Difference, or Monthly Range, = 1.726

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 18 th, = 54.4  
 Lowest in Month, corrected for Index errors, on the 28 th, = 23.5  
 Difference, or Monthly Range, = 30.9  
 "Corrected Mean" of all the Highest, (Col. 5), = 44.6  
 "Corrected Mean" of all the Lowest, (Col. 6), = 34.2  
 Difference, or Mean Daily Range, = 10.4  
 \* Calculated Mean Temperature of Month, = 39.4  
 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), = 39.38  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 36.8  
 † Computed Temperature of Dew-Point, = 33.7  
 † Do. Elastic Force of Vapour, = 1.94  
 † Do. Weight of Vapour in a Cubic Foot of Air, = 2.24  
 † Relative Humidity, (Saturation = 100), = 81  
 RAIN fall on 18 Days; Amount in Inches, = 2.095

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		5	1	0	0	0	1	6	14	4	1.18
P.M.		3	0	0	0	0	2	5	12	9	1.08
Mean.		4	0	0	0	0	1.5	5.5	13	6.5	1.13

\* 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 Gladstone's Hygrometrical Tables, Second Edition only.  
 ††† While the Diurnal Range is unknown, the Arithmetical Mean of Cols. 5 and 6 will be entered as the "Calculated Mean Temperature."  
 Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and Return verified by James Dale - Teacher  
Gordon's Hospital - Abdu

(Signed) James Dale 74.

Greatest Daily Range = 23.4 on the 8th







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Robert Gordon's Hospital County of Aberdeen, in Lat. 59° 7' N., Long. 2° 6' W., Distance from Sea 1 mile.  
Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 2 1/2 feet. During the MONTH of April 1878  
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.		SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. —				WIND.				RAIN.		CLOUDS.		THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		9 h. A.M.		9 h. P.M.		Protected in Shade & level above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 A.M.		9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Barometer. No.	Atmosphere. Thermometer.	Barometer. No.	Atmosphere. 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.	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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Barometer. No.	Atmosphere. Thermometer.	Barometer. No.	Atmosphere. 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.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	Hours.						No. 1. Inches.	No. 2. Inches.	No. 3. Inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		inches.	°.	inches.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.	°.

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.805  
for Temp. (Col. 2), = 29.805 - 0.043 = 29.762  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.829  
for Temp. (Col. 4), = 29.829 - 0.043 = 29.786  
Mean at Station, corrected, and at 32°, = 29.817  
Correction for height, 66 feet above Mean Sea-level, = 0.074  
Mean, reduced to 32°, and Sea-level, = 29.891  
Highest Reading, corrected for Index error, on the 11 th, = 30.200  
Lowest Do. Do. on the 14 th, = 28.700  
Difference, or Monthly Range, = 1.600

\* 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 given.  
† Emending corrections for both capillary and Index Errors.  
†† The Diurnal Range for Scotland is as yet unknown.  
‡ Practically, though not absolutely a mean 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. 9 and 10 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 14 th, = 59.9  
Lowest in Month, corrected for Index errors, on the 14 th, = 28.9  
Difference, or Monthly Range, = 31.0  
"Corrected Mean" of all the Highest, (Col. 5), = 47.8  
"Corrected Mean" of all the Lowest, (Col. 6), = 39.5  
Difference, or Mean Daily Range, = 8.3  
\* Calculated Mean Temperature of Month, = 43.6

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

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 43.8  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 42.3  
† Computed Temperature of Dew-Point, = 40.5  
†† Do. Elastic Force of Vapour, = 25.3  
†† Do. Weight of Vapour in a Cubic Foot of Air, = 2.91  
†† Relative Humidity, (Saturation = 100), = 88  
RAIN fell on 16 Days; Amount in Inches, = 0.940

WIND.		SUMMARY.		MEAN FORCE.		MEAN VELOCITY.	
Direction.	N	NE	E	SE	S	SW	W
A.M.	4	1	7	3	5	4	1
P.M.	4	1	6	4	0	0	5
Mean.	4	1	6	4	0	1	4

Observations made and Return verified by

James Dale  
Teacher, Gordon's Hospital

(Signed)

James Dale

74.

Greatest Daily Range = 18.6 on the 15th

74.







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Aberdeen, County of Aberdeen, in Lat. 57° 7', Long. 2° 6' W., Distance from Sea 1 miles.  
 Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 22 feet. During the MONTH of May 1878.  
 The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.						SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. —				WIND.				RAIN.	CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS.  As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.				
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 A.M.			P.M.		9 h. A.M.		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	Readings of the H. Cup Anemometer. No.	No. of hours in which it fell.		Amount in inches. No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	3 inches.	12 inches.					No.	22- inches.	Temperature of Water, 1 foot below surface, No.	Temperature at 1 fathom, and Density.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°					°	°	°	°
	1	29.580	47.1	29.648	48.5	49.9	42.8	42.8	46.0	45.0	49.0	47.8	S. E.	0.5	0	0	0.015	Nim	10	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
	2	29.736	49.9	29.752	53.2	58.2	43.0	58.2	49.6	47.9	53.1	53.0	S. E.	1	S. E.	0.5	0.010	ci-cu	10	9	0	0	0	0	0	0	0	0	0	0	0	0	2			
	3	29.832	52.9	29.720	53.3	58.2	44.8	58.2	52.8	48.7	52.8	47.0	S. W.	1	S. W.	2	0.000	ci-cu	10	12	0	0	0	0	0	0	0	0	0	0	0	0	3			
	4	29.748	53.7	29.900	54.2	58.1	44.8	58.1	52.2	44.9	52.7	47.3	W.	1	N. W.	1	0.000	ci-cu	10	11	0	0	0	0	0	0	0	0	0	0	0	0	4			
	5	29.936	54.8	29.928	54.2	60.2	51.8	60.2	55.3	49.0	53.1	47.3	S. W.	1	S. W.	1	0.000	ci-cu	10	13	0	0	0	0	0	0	0	0	0	0	0	0	5			
	6	29.920	52.9	29.820	49.5	53.0	45.0	53.0	52.2	48.7	48.2	46.3	S. W.	1.5	S. E.	1.5	0.000	ci-cu	10	10	0	0	0	0	0	0	0	0	0	0	0	0	6			
	7	29.808	52.5	29.888	50.0	52.5	45.1	52.5	50.6	47.3	47.3	45.7	S. E.	1	E.	0.5	0.025	ci-cu	10	8	0	0	0	0	0	0	0	0	0	0	0	0	7			
	8	29.952	49.3	30.032	47.9	51.7	45.4	51.7	47.2	46.0	47.0	43.2	E.	0.5	E.	1	0.000	ci-cu	10	0	0	0	0	0	0	0	0	0	0	0	0	0	8			
	9	30.036	47.9	29.988	48.1	52.2	42.5	52.2	48.4	42.8	46.1	41.4	S. E.	1	W.	0	0.000	ci-cu	10	6	0	0	0	0	0	0	0	0	0	0	0	0	9			
	10	29.940	48.2	29.908	48.0	53.0	43.3	53.0	47.8	43.2	48.2	46.3	S.	1.5	S.	1.5	0.000	ci-cu	10	3	0	0	0	0	0	0	0	0	0	0	0	0	10			
	11	29.848	49.6	29.660	49.0	53.2	43.0	53.2	50.7	47.1	48.0	46.8	S. E.	2	S. E.	0.5	0.240	ci-cu	10	6	0	0	0	0	0	0	0	0	0	0	0	0	11			
	12	29.628	47.7	29.610	52.2	54.0	46.3	54.0	48.2	47.3	50.2	48.3	S. E.	1	S. E.	1	0.000	ci-cu	10	6	0	0	0	0	0	0	0	0	0	0	0	0	12			
	13	29.536	49.4	29.390	48.1	51.8	46.4	51.8	49.2	48.1	47.9	47.3	S.	1	S.	0.5	0.045	ci-cu	10	0	0	0	0	0	0	0	0	0	0	0	0	0	13			
	14	29.278	53.4	29.236	52.2	58.5	45.0	58.5	53.9	51.4	51.2	48.0	S. W.	1.5	S. W.	0.5	0.000	ci-cu	10	8	0	0	0	0	0	0	0	0	0	0	0	0	14			
	15	29.280	54.2	29.168	52.0	53.4	47.4	53.4	53.8	50.1	51.2	48.8	S.	2	S.	1.5	0.030	ci-cu	10	7	0	0	0	0	0	0	0	0	0	0	0	0	15			
	16	29.140	55.1	29.420	50.5	62.2	47.3	62.2	53.9	52.0	50.1	48.2	S. W.	0.5	S.	1.5	0.215	ci-cu	10	5	0	0	0	0	0	0	0	0	0	0	0	0	16			
	17	29.332	52.2	29.742	57.1	62.0	48.5	62.0	57.8	49.3	56.7	49.2	S.	1.5	W.	1	0.010	Nim	10	5	0	0	0	0	0	0	0	0	0	0	0	0	17			
	18	29.728	52.5	29.484	52.7	57.0	48.0	57.0	51.3	49.4	57.9	48.6	S. W.	1	W.	1	0.210	ci-cu	10	4	0	0	0	0	0	0	0	0	0	0	0	0	18			
	19	29.438	54.9	29.494	52.5	56.8	46.7	56.8	53.0	49.0	49.9	47.3	W.	1	N. W.	0.5	0.070	ci-cu	10	4	0	0	0	0	0	0	0	0	0	0	0	0	19			
	20	29.728	48.0	29.666	48.0	54.0	57.4	54.0	59.5	57.8	46.0	41.0	N.	1	N. W.	0.5	0.000	Nim	10	5	0	0	0	0	0	0	0	0	0	0	0	0	20			
	21	29.548	48.1	29.566	46.3	47.1	37.4	47.1	44.1	37.1	40.7	39.2	N. W.	1.5	W.	0	0.480	ci-cu	10	5	0	0	0	0	0	0	0	0	0	0	0	0	21			
	22	29.628	49.1	29.688	48.8	52.7	39.8	52.7	47.2	43.5	47.1	45.2	N. W.	2	W.	0	0.135	ci-cu	10	6	0	0	0	0	0	0	0	0	0	0	0	0	22			
	23	29.540	50.0	29.420	50.2	52.8	41.1	52.8	48.4	45.9	48.4	47.0	E.	0.5	N. E.	0.5	0.000	ci-cu	10	5	0	0	0	0	0	0	0	0	0	0	0	0	23			
	24	29.412	51.8	29.438	51.3	51.2	45.4	51.2	49.8	44.9	46.7	43.2	E.	1	N.	1	0.000	ci-cu	10	14	0	0	0	0	0	0	0	0	0	0	0	0	24			
	25	29.440	51.0	29.580	52.4	53.0	40.6	53.0	50.6	48.1	50.4	46.5	N.	1.5	W.	0	0.000	ci-cu	10	8	0	0	0	0	0	0	0	0	0	0	0	0	25			
	26	29.582	53.3	29.604	51.9	57.0	41.8	57.0	51.7	47.2	50.1	48.0	S. W.	1.5	S. W.	0.5	0.650	ci-cu	10	8	0	0	0	0	0	0	0	0	0	0	0	0	26			
	27	29.684	52.9	29.772	52.7	57.0	41.7	57.0	48.8	47.2	57.7	50.1	S. W.	0.5	S. E.	0.5	0.040	ci-cu	10	9	0	0	0	0	0	0	0	0	0	0	0	0	27			
	28	29.888	52.1	30.020	52.3	53.8	49.0	53.8	57.0	50.0	50.7	48.3	S. E.	1	W.	0	0.000	ci-cu	10	0	0	0	0	0	0	0	0	0	0	0	0	0	28			
	29	30.130	53.0	30.140	51.8	57.0	48.0	57.0	57.1	48.0	47.0	47.8	E.	2	E.	2	0.000	ci-cu	10	5	0	0	0	0	0	0	0	0	0	0	0	0	29			
	30	30.094	54.0	30.088	53.1	57.2	47.1	57.2	54.0	48.1	49.8	46.0	N. W.	1	W.	0	0.010	ci-cu	10	11	0	0	0	0	0	0	0	0	0	0	0	0	30			
	31	30.030	51.9	30.008	50.9	57.1	42.5	57.1	49.3	42.5	46.2	43.4	N.	1.5	W.	0	0.000	ci-cu	10	15	0	0	0	0	0	0	0	0	0	0	0	0	31			
Sums.		29.740	51.3	29.678	51.3	53.4	44.4	53.4	50.2	46.6	49.5	46.5	143	0.66			24.25	2.21	2.28	208																
Means.		29.701	51.6	29.699	51.6	53.2	44.4	53.2	50.2	46.6	49.5	46.5	143	0.66			7.1	7.4																		
* Total Corrections for Instru- mental Errors.		+0.006	-0.8	+0.006	-0.8	-0.5	-0.1	-0.5	-0.4	-0.2	-0.4	-0.2																								
* Corre- ctions for Diurnal Range.																																				
* Cor- rected Means.		29.707	50.8	29.705	50.3	54.7	44.3	54.7	49.8	46.4	49.1	46.3																								
No. of		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  $\uparrow$  = 29.649  
 for Temp. (Col. 2), = 29.649  
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\uparrow$  = 29.647  
 for Temp. (Col. 4), = 29.647  
**Mean at Station, corrected, and at 32°**, = 29.648  
 Correction for height, 66 feet above Mean Sea-level, = 0.074  
**Mean, reduced to 32°, and Sea-level**, = 29.722  
 Highest Reading, corrected for Index error, on the 29th, 9 P.M. = 30.146  
 Lowest Do. Do., on the 15th, 9 P.M. = 29.174  
 Difference, or **Monthly Range**, = 0.972

**S.-R. THERMOMETER**, (in shade, etc.), **Highest in Month**, (corrected for Index Errors), on the 16th, = 61.6  
**Lowest in Month**, corrected for Index errors, on the 21st, = 37.4  
 Difference, or **Monthly Range**, = 24.2  
 "Corrected Mean" of all the Highest, (Col. 5), = 54.7  
 "Corrected Mean" of all the Lowest, (Col. 6), = 44.3  
 Difference, or **Mean Daily Range**, = 10.4  
 \* Calculated **Mean Temperature** of Month, = 49.5  
**S.-R. THERMOMETER**, **Black Bulb in Sun**, Highest, (corrected for Index Errors), on the 1st, = 54.7  
 "Corrected Mean," (Col. 7), of **Black Bulb, Max. in Sun**, = 54.7  
**Lowest at Night**, Black Bulb, (corrected for Index errors), on the 1st, = 37.4  
 "Corrected Mean," (Col. 8), of **Black Bulb, Min. on grass**, = 37.4  
 Difference of above Means or Range ("exposed"), = 17.3

**HYGROMETER**, **Mean** (corrected) A.M. and P.M. Reading of **Dry Bulb**, (Cols. 9 and 11), = 49.48  
**Mean** (corrected) A.M. and P.M. Reading of **Wet Bulb**, (Cols. 10 and 12), = 46.48  
 \* Computed **Temperature of Dew-Point**, = 43.2  
 \* Do. **Elastic Force of Vapour**, = 28.1  
 \* Do. **Weight of Vapour in a Cubic Foot of Air**, = 3.18  
 \* **Relative Humidity**, (Saturation = 100), = 79  
**RAIN** fell on 16 Days; Amount in Inches, = 2.425  
**WIND.** SUMMARY.  
 Direction. N NE E SE S SW W NW  
 A.M. 3 0 4 7 4 8 2 3 0 1.13  
 P.M. 1 1 3 4 5 4 2 3 8 0.66  
 Mean. 2 0.46 4 6 2 3 4 0.90 = 0.81

Observations made and Return verified by James Dale, Teacher  
Gordon's Hospital, Aberdeen

(Signed) James Dale  
 Greatest Daily Range = 16.6 on the 16th







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Aberdeen, County of Aberdeen, in Lat. 57° 14' N., Long. 2° 06' W., Distance from Sea 1 miles.Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 2 1/2 feet.During the MONTH of June 1878.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. —				WIND.				RAIN.		CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			SEA. Temperature at 1 Fathom, and Density.	OZONE. 0—10.	GENERAL REMARKS.  As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.		Days of Month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 A.M.		P.M.			9 h. A.M.								Temperature of Well at 10 feet No. —																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Barometer. * No. —	Attached Thermometer No. —	Barometer. No. —	Attached Thermometer No. —	Max. No. —	Min. No. —	Max. in Shade, 4 feet above Ground. No. —	Min. on Sun's rays. Grass. No. —	Dry bulb. No. —	Wet bulb. No. —	Dry bulb. No. —	Wet bulb. No. —	Direction.	Force.	Direction.	Force.			No. —	Velocity (0—10), and Direction.	Amount (0—10), and Direction.	Velocity (0—10), and Direction.		Amount (0—10), and Direction.	No. — 3 inches.	No. — 12 inches.							No. — 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
																																			Inches.	°	Inches.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.855  
for Temp. (Col. 2), = 29.903..... = 29.744  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.854  
for Temp. (Col. 4), = 29.925..... = 29.941  
Mean at Station, corrected, and at 32°,..... = 29.847  
Correction for height, 66 feet above Mean Sea-level,..... = 0.074  
Mean, reduced to 32°, and Sea-level,..... = 29.921  
Highest Reading, corrected for Index error, on the 29 th, 9 P.M. = 30.202  
Lowest Do. Do., on the 9 th, 9 A.M. = 29.322  
Difference, or Monthly Range,..... = 0.880

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 29 th,..... = 73.5  
Lowest in Month, corrected for Index errors, on the 15 th,..... = 40.8  
Difference, or Monthly Range,..... = 32.7  
"Corrected Mean" of all the Highest, (Col. 5),..... = 60.2  
"Corrected Mean" of all the Lowest, (Col. 6),..... = 48.6  
Difference, or Mean Daily Range,..... = 11.6  
\* Calculated Mean Temperature of Mo..... = 54.4  
S.-R. THERMOMETER, Black Bulb 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 ("Corrected Mean")..... =

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11),..... = 54.8  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12),..... = 51.6  
†† Computed Temperature of Dew-Point,..... = 47.6  
†† Do. Elastic Force of Vapour,..... = 3.28  
†† Do. Weight of Vapour in a Cubic Foot of Air,..... = 3.75  
†† Relative Humidity, (Saturation = 100),..... = 76  
RAIN fell on 11 Days; Amount in Inches,..... = 1.63

WIND.		SUMMARY.									
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity, in miles per day.
A.M.	5	4	6	2	8	3	1	0	1	0.97	
P.M.	4	1	9	0	3	4	0	0	9	0.72	
Mean.	4	2	8	1	6	4	0	0	5	0.84 = 0.71	

Observations made and Return verified by

James Dale  
Teacher - Gordon's Hospital, Aberdeen

(Signed)

James Dale

Greatest daily Range = 17.6 on the 27th

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# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Londonderry Hospital, Aberdeen, County of Aberdeen, in Lat. 57° 7' N, Long. 2° 6' W, Distance from Sea 1 mile.  
 Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 2 1/2 feet. During the MONTH of July 1878.  
 The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.								SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No.				WIND.				RAIN.		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, least above Ground.		Exposed Black Balls.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 A.M.		P.M.		9 h. A.M.															
		Barometer. * No.	Atmospheric thermometer	Barometer. No.	Atmospheric thermometer	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.			9 h. A.M.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	Hours.	No. 3 inches.	12 inches.	No. 23 inches.											
																													9 A.M.						P.M.		9 h. A.M.		
																													9 A.M.						P.M.		9 h. A.M.		
1	30.004	57.9	29.980	56.6	56.6	57.1			54.2	44.0	53.0	44.4	N.	1.5	N.	1		0.0	10 cu-ft	10 cu-ft	2									1									
2	29.920	56.8	29.872	56.2	57.6	48.1			52.2	47.9	52.8	48.4	N.	1.5	N.	0.5		.01	10 cu-ft	10 cu-ft	8									2									
3	29.946	57.2	30.024	55.8	57.9	46.9			53.2	47.8	53.6	47.4	N.E.	1.5	N.	0.5		.0	10 cu-ft	10 cu-ft	8									3									
4	29.982	57.4	29.856	55.0	66.0	44.0			58.0	52.6	57.1	56.2	E.	1	S.	0.5		.13	10 cu-ft	10 cu-ft	4									4									
5	29.818	60.2	29.692	55.9	65.1	44.0			61.4	57.0	59.8	58.2	W	0.5	W	0		.08	10 cu-ft	10 cu-ft	0									5									
6	29.680	61.8	29.798	62.6	69.0	57.6			63.2	56.8	62.2	57.1	N.W	2	N	0.5		.0	10 cu-ft	10 cu-ft	14									6									
7	29.820	61.2	29.986	58.4	63.0	55.9			59.2	58.1	58.2	56.4	N	1	W	0		.0	10 cu-ft	10 cu-ft	6									7									
8	30.088	60.8	30.042	59.0	64.2	50.2			59.4	52.9	56.8	54.8	N	0.5	S	0.5		.0	10 cu-ft	10 cu-ft	6									8									
9	29.796	59.0	29.690	61.5	68.5	52.8			59.8	53.6	59.8	58.9	S.W	1.5	N	1		.01	10 cu-ft	10 cu-ft	2									9									
10	29.694	60.6	29.640	59.2	64.1	54.9			59.6	53.1	57.9	53.4	N.W	1	N	1		.07	10 cu-ft	10 cu-ft	2									10									
11	29.692	59.9	29.744	57.8	61.2	52.1			53.4	52.1	53.1	52.6	N	2	N	1		.04	10 cu-ft	10 cu-ft	1									11									
12	29.838	60.0	29.940	59.0	63.0	52.1			58.9	53.8	57.6	50.1	N	1	N	0.5		.0	10 cu-ft	10 cu-ft	4									12									
13	29.746	57.5	30.022	57.2	57.5	52.8			57.8	57.0	53.1	51.1	N	2	N	0.5		.0	10 cu-ft	10 cu-ft	4									13									
14	30.026	59.8	30.112	60.1	65.8	58.0			61.0	53.2	56.2	52.4	N	1	N	1		.0	10 cu-ft	10 cu-ft	2									14									
15	30.170	60.1	30.174	59.2	65.0	57.4			63.0	56.9	52.2	54.8	E.	1	S	1		.0	10 cu-ft	10 cu-ft	8									15									
16	30.140	63.1	30.176	62.1	69.4	52.8			66.4	59.9	62.1	59.8	S	0.5	W	0		.02	10 cu-ft	10 cu-ft	4									16									
17	30.164	64.8	30.144	68.0	75.8	57.0			68.5	63.0	72.0	64.4	W	1	W	0.5		.0	10 cu-ft	10 cu-ft	9									17									
18	30.238	68.8	30.254	70.2	78.2	61.1			68.9	60.8	72.2	64.9	W	0.5	N.W	0.5		.0	10 cu-ft	10 cu-ft	12									18									
19	30.260	70.1	30.200	65.5	73.8	62.1			72.6	65.1	62.5	59.9	N	1	E	0.5		.0	10 cu-ft	10 cu-ft	10									19									
20	30.126	61.0	30.146	61.4	66.8	58.6			62.6	59.5	57.8	55.1	E	1	E	1		.01	10 cu-ft	10 cu-ft	8									20									
21	30.122	61.1	30.144	60.2	66.2	58.0			60.0	57.9	60.6	58.5	W	0	E	0.5		.0	10 cu-ft	10 cu-ft	2									21									
22	30.186	59.4	30.156	59.9	65.0	56.9			60.0	57.8	60.6	56.5	E	1	S	0.5		.0	10 cu-ft	10 cu-ft	3									22									
23	30.082	58.6	29.948	58.2	64.9	57.0			60.0	56.8	59.0	56.8	S	1	S	1		.0	10 cu-ft	10 cu-ft	0									23									
24	29.818	59.6	29.768	59.8	66.6	56.4			61.8	57.4	60.1	57.9	S	1	S	0.5		.0	10 cu-ft	10 cu-ft	6									24									
25	29.694	61.1	29.670	61.2	69.0	56.1			62.8	60.0	62.1	59.8	S	0.5	S	0.5		.0	10 cu-ft	10 cu-ft	6									25									
26	29.712	61.0	29.790	61.9	63.4	57.0			59.0	54.2	58.2	52.9	N	1.5	W	0		.04	10 cu-ft	10 cu-ft	2									26									
27	29.868	61.0	29.972	60.4	61.8	50.6			58.2	57.9	57.9	52.1	N	1	E	0.5		.015	10 cu-ft	10 cu-ft	23									27									
28	29.998	60.0	30.020	59.8	60.5	52.8			57.2	57.8	53.0	52.0	N	1	W	0		.01	10 cu-ft	10 cu-ft	1 1/2									28									
29	30.080	60.0	30.194	58.0	61.2	49.5			58.0	52.8	53.8	50.6	N	1	W	0		.025	10 cu-ft	10 cu-ft	6									29									
30	30.280	58.9	30.354	56.9	60.0	49.9			57.1	57.4	55.6	51.2	N.E.	0.5	W	0		.0	10 cu-ft	10 cu-ft	8									30									
31	30.394	63.0	30.392	58.8	64.4	48.2			57.8	55.6	55.1	53.4	W	0	S	0.5		.0	10 cu-ft	10 cu-ft	14									31									
Sums.	929.562	1881.7	929.920	1863.8	2011.5	1644.9			1867.2	1783.7	1714.0	1713.0		31.5		16.8		0.460	256	218	163.4																		
Means.	29.986	60.7	29.998	60.1	64.9	53.2			60.2	55.3	58.5	53.3		1.02		0.54			8.3	7.0																			
†† Total Corrections for Instrumental Errors.	+ 0.006	- 0.9	+ 0.006	- 0.9	- 0.6	- 0.2			- 0.2	- 0.4	- 0.2	- 0.4																											
†† Corrections for Diurnal Range.																																							
"Corrected Means."	29.992	59.8	30.004	59.2	64.3	53.0			60.0	54.8	58.3	54.9																											
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†† for Temp. (Col. 2), = 29.903  
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction†† for Temp. (Col. 4), = 29.959  
 Mean at Station, corrected, and at 32°, = 29.914  
 Correction for height, 66 feet above Mean Sea-level, = 0.074  
 Mean, reduced to 32°, and Sea-level, = 29.988  
 Highest Reading, corrected for Index error, on the 31st A.M. = 30.400  
 Lowest Do. Do., on the 28th P.M. = 29.676  
 Difference, or Monthly Range, = 0.724

\* 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.  
 † Embarking corrections for both capillary and Index Errors.  
 †† The "Hygrometric Deductions" are calculated from Glaisher's Hygrometric Tables, Second Edition 1893.  
 ‡‡ When the Diurnal Range is unknown, the Arithmetic Mean of Col. 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 18th, = 77.6  
 Lowest in Month, corrected for Index errors, on the 4th, = 43.8  
 Difference, or Monthly Range, = 33.8  
 "Corrected Mean" of all the Highest, (Col. 5), = 64.3  
 "Corrected Mean" of all the Lowest, (Col. 6), = 53.0  
 Difference, or Mean Daily Range, = 11.3  
 \*\* Calculated Mean Temperature of Month, = 58.86  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the th, = 77.6  
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 77.6  
 Lowest at Night, Black Bulb, (corrected for Index errors), on the th, = 43.8  
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 43.8  
 Difference of above Means or Range ("exposed"), = 33.8

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 59.2  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 54.9  
 †† Computed Temperature of Dew-Point, = 57.0  
 †† Do. Elastic Force of Vapour, = 3.75  
 †† Do. Weight of Vapour in a Cubic Foot of Air, = 4.33  
 †† Relative Humidity, (Saturation = 100), = 74  
 RAIN fell on 12 Days; Amount in Inches, = 0.46

WIND. SUMMARY.

Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	13	2	4	0	4	1	3	2	2	102	
P.M.	10	0	4	0	8	0	1	1	7	254	
Mean.	12	1	4	0	6	0	2	2	4	178	0.6166

Observations made by Luther Martin  
 Return verified by James Dale

(Signed) James Dale

Greatest Daily Range = 21.1 miles 5th



~~1838~~ 1838 Sherriden

BOOK POST.

Mr ALEXANDER BUCHAN,

*Secretary of the Meteorological Society of Scotland.*

EDINBURGH.

Whether Epizootic disease prevails among cattle; and the Agricultural condition of the district generally.

SHRUBS, ETC.	Barberry, Bouthee or Elder, Broom, Hazel, Hawthorn, Holly, Laburnum, Lilac, Mezerion, Mountain Ash or Rowan, Red Flowering Currant, Rhododendron Ponticum, Vib.
FRUITS.	Apple, Black Currant, Cherry, Gean, Roseberry, Pear, Plum, Strawberry.
First in Blossom.	First in Blossom. generally.
ARRIVAL.	DEPARTURE.
First Arrival.	First Departure.
MIGRATORY BIRDS.	Chickoo, Curtlew, House-Swallow, Lapwing, Plover, Sand-Martin, Starling, Swan, Hail or Corn Crake.

[illegible]

OBSERVATIONS IN CONNECTION WITH THE PERIODICAL RETURN OF THE SEASONS.



Observations taken at Gordon's Hospital Schoolhill - Aberdeen, County of Aberdeen, in Lat. 59° 7' N, Long. 2° 6' W, Distance from Sea 1 miles.

During the MONTH of August 1878

[illegible]

**S.-R. THERMOMETER**, (in shade, etc.), **Highest in Month**, (corrected for Index Errors), on the ~~1st~~ 12th ..... = 68.6

**Lowest in Month**, corrected for Index errors, on the 18th, ..... = 47.4

Difference, or **Monthly Range**, ..... = 21.2

" Corrected **Mean** " of all the **Highest**, (Col. 5), ..... = 62.14

" Corrected **Mean** " of all the **Lowest**, (Col. 6), ..... = 53.9

Difference, or **Mean Daily Range**, ..... = 8.24

\*\* Calculated **Mean Temperature** of Month, ..... = 58.05

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

<b>HYGROMETER, Mean</b> (corrected) A.M. and P.M. Reading of <b>Dry Bulb</b> , (Cols. 9 and 11), .....	=	58.1
<b>Mean</b> (corrected) A.M. and P.M. Reading of <b>Wet Bulb</b> , (Cols. 10 and 12), .....	=	55.5
## <b>Computed Temperature of Dew-Point</b> , .....	=	53.2
## <b>Do. Elastic Force of Vapour</b> , .....	=	4.06
## <b>Do. Weight of Vapour in a Cubic Foot of Air</b> , ...	=	4.53
## <b>Relative Humidity, (Saturation = 100)</b> , .....	=	84
<b>RAIN</b> fell on <b>26 Days</b> ; Amount in Inches, .....	=	3.89

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	5	9	5	3	1	1	4	18	0.69	
P.M.	3	2	9	3	7	1	1	2	23	0.6	
Mean.	2	4	9	4	5	1	1	3	2	0.65	= 0.42

\* Each Instrument tested at this Office in Edinburgh bears the stamp "S.M.S.," and a number to be entered in the Heading; or the Number and Initials of the Maker may be here given.  
† Embracing corrections for both capillary and Index Errors.  
‡ The Diurnal Range for Scotland is as yet unknown.  
+ Practically, though not absolutely a *minus* correction.  
|| These "Thermometrical Deductions" are calculated from Gladstair's Hygrometrical Tables, Second Edition only.  
¶ While the Diurnal Range is unknown, the Arithmetical Mean of Columns 6 and 7 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

(Signed

Greatest Daily Range = 17.6 on the 18<sup>th</sup>

MA







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon Hospital, Abdee, County of Aberdeen, in Lat. 59° 7', Long. 2° 6' W. Distance from Sea 1 miles.  
Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 2½ feet. During the MONTH of September 187 8.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS.				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, &c. above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 A.M.		9 P.M.		9 h. A.M.		9 h. P.M.		Temperature of WELL at depth of feet. No.	Temperature of surface and Ductility.	9 A.M.	9 P.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.			Velocity (0-10), and Direction.	Amount (0-10), and Species.	Velocity (0-10), and Direction.	Amount (0-10), and Species.	No.	3 inches.										12 inches.	No.	22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.724  
for Temp. (Col. 2), = 29.749 ..... - 0.024.  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.735  
for Temp. (Col. 4), = 29.809 ..... - 0.074.  
Mean at Station, corrected, and at 32°, ..... = 29.728  
Correction for height, 66 feet above Mean Sea-level, ..... = 0.074  
Mean, reduced to 32°, and Sea-level, ..... = 29.802  
Highest Reading, corrected for Index error, on the 2<sup>nd</sup> th, 9 A.M. = 30.154  
Lowest Do. Do., on the 15<sup>th</sup> th, 9 P.M. = 28.812  
Difference, or Monthly Range, ..... = 1.342 342

\* 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 "Hygrometric Corrections" are calculated from Glaisher's Hygrometric 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.







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Aberdeen County of Aberdeen, in Lat. 57° 7' N. Long. 2° 6' W. Distance from Sea 1 miles.Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 22 feet.During the MONTH of October 1878.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. —				WIND.				RAIN.		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.		P.M.		9 h. A.M.										
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.	Velocity (0—5), and Direction.	Amount (0—10), and Direction.	Velocity (0—5), and Direction.	Amount (0—10), and Direction.	No.	12 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.						
		inches.	°	inches.	°	°	°	°	°	°	°	°																				
	1	29.980	49.8	30.160	51.0	50.0	40.1	45.6	47.2	45.0	42.4	N.W.	2	N.	1		0	0	0	0	0	10									1	
	2	30.210	46.0	30.046	51.2	51.4	37.0	41.9	47.2	46.0	42.4	W.	1	W.	1		1.06	0	0	0	0	11									2	
	3	29.928	55.2	30.002	56.2	63.1	46.8	52.2	47.1	53.9	50.5	S.W.	1	S.	1		1.10	0	0	0	0	9									3	
	4	30.130	52.2	30.048	52.4	57.0	48.0	50.7	47.1	51.2	50.0	E.	1	S.E.	1		1.08	0	0	0	0	0									4	
	5	30.022	54.8	29.880	56.8	57.9	50.2	54.3	53.6	56.0	55.0	S.E.	1	S.	1		1.10	0	0	0	0	2									5	
	6	29.680	59.0	29.542	57.1	58.1	54.0	57.9	55.3	56.8	55.0	S.	3	S.	2		1.03	0	0	0	0	4									6	
	7	29.414	56.8	29.360	56.8	58.9	53.9	57.3	55.9	55.2	53.9	S.	1	S.W.	1		1.03	0	0	0	0	3									7	
	8	29.194	57.0	29.060	57.7	58.0	53.5	58.9	55.4	58.0	53.0	S.	3	S.	3		0	0	0	0	0	6									8	
	9	29.260	56.8	29.070	56.8	57.2	52.4	58.0	55.9	52.9	51.4	S.	2	S.	1		1.32	0	0	0	0	4									9	
	10	28.960	56.1	28.884	57.0	57.3	53.1	55.0	52.2	55.1	53.9	S.W.	1	S.	1		1.03	0	0	0	0	3									10	
	11	29.304	56.2	29.762	54.3	57.4	49.3	54.7	53.7	55.6	54.8	S.W.	2	S.	2		0	0	0	0	0	5									11	
	12	30.030	56.4	30.086	52.6	57.0	45.4	52.1	49.6	50.4	44.2	S.	1	S.	1		1.04	0	0	0	0	9									12	
	13	29.996	55.0	29.946	55.8	57.2	45.5	54.4	47.1	50.2	46.8	S.W.	2	S.W.	1		0	0	0	0	0	5									13	
	14	30.012	52.4	30.048	55.0	55.8	48.8	51.5	51.9	51.3	51.3	S.W.	1	S.W.	1		0	0	0	0	0	2									14	
	15	30.116	54.8	30.146	54.2	56.1	51.3	53.8	48.2	53.8	52.0	S.W.	1	S.W.	2		0	0	0	0	0	6									15	
	16	30.048	54.8	29.920	54.3	54.9	50.6	54.1	52.0	53.8	52.2	S.W.	1	S.W.	0		0	0	0	0	0	3									16	
	17	29.860	54.9	29.874	56.1	56.8	51.4	54.2	52.0	55.2	53.0	S.	2	S.	2		0	0	0	0	0	4									17	
	18	29.946	53.1	29.938	52.1	53.6	46.8	51.0	49.7	53.1	51.8	S.	3	N.W.	1		0	0	0	0	0	0									18	
	19	29.886	54.9	29.840	52.8	53.2	52.0	54.2	51.8	54.2	52.1	N.W.	1	N.W.	1		0	0	0	0	0	0									19	
	20	29.734	53.1	29.480	54.1	55.0	52.6	54.6	52.2	53.9	52.8	N.W.	1	N.W.	1		1.11	0	0	0	0	0									20	
	21	29.116	46.9	28.678	50.3	53.0	48.2	52.3	50.2	49.3	47.6	S.W.	2	S.	2		1.33	0	0	0	0	1									21	
	22	28.830	54.9	28.958	44.2	50.9	38.4	43.2	40.1	41.9	39.2	S.	2	S.	1		0	0	0	0	0	5									22	
	23	28.994	45.8	28.948	46.8	47.0	38.1	43.0	41.2	45.8	43.2	S.	2	S.	1		0	0	0	0	0	7									23	
	24	29.010	48.1	28.950	49.1	50.1	42.2	44.8	42.9	46.8	43.5	S.	1	S.	1		0	0	0	0	0	7									24	
	25	28.936	44.1	28.922	46.1	48.1	40.8	43.3	41.0	42.0	40.1	N.W.	1	N.W.	1		1.12	0	0	0	0	6									25	
	26	29.110	47.0	29.226	48.3	47.3	35.8	41.3	40.0	43.1	40.2	N.W.	1	N.W.	1		1.15	0	0	0	0	4									26	
	27	29.432	49.8	29.484	44.8	48.0	39.6	46.1	43.0	40.0	38.2	N.W.	1	N.W.	1		1.12	0	0	0	0	4									27	
	28	29.328	43.1	29.530	49.3	44.2	35.0	37.6	35.2	43.1	41.0	N.W.	1	N.W.	2		1.19	0	0	0	0	4									28	
	29	29.656	45.2	29.464	44.8	44.1	33.3	36.3	34.8	38.2	36.2	N.W.	1	N.W.	1		1.17	0	0	0	0	3									29	
	30	29.528	46.2	29.796	48.4	45.0	35.3	42.3	41.4	44.0	42.6	N.W.	1	N.W.	2		1.94	0	0	0	0	0									30	
	31	29.910	45.9	29.940	45.6	45.1	39.0	40.2	38.6	40.2	39.0	N	1	N	1		1.21	0	0	0	0	4									31	
Sums.		917.560	1606.3	918.958	1615.6	1654.7	1408.4	1531.9	1458.6	1546.6	1473.9	47.0	42.5	3.16	206	170	134															
Means.		29.569	51.8	29.579	52.1	53.4	45.4	49.4	47.0	49.7	47.5	1.52	1.37					66	57													
† Total Corrections for Instrumental Errors.		+ .006	-.8	+0.006	-.3	-.5	-.2	-.4	-.2	-.4	-.2	0.6	0.6																			
‡ Corrections for Diurnal Range.																																
"Corrected Means."		29.605	51.0	29.585	51.3	52.9	45.2	49.0	46.8	49.3	47.3																					
No. of Columns.		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†† = 29.546  
for Temp. (Col. 2), = 29.625 ..... - .089..."Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.526  
for Temp. (Col. 4), = 29.585 ..... - .059...Mean at Station, corrected, and at 32°..... = 29.536Correction for height, 66 feet above Mean Sea-level..... = 0.072Mean, reduced to 32°, and Sea-level..... = 29.608Highest Reading, corrected for Index error, on the 2nd 9 A.M. = 30.216Lowest Do. Do., on the 21st 9 P.M. = 28.684Difference, or Monthly Range..... = 1.532S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3d..... = 62.5Lowest in Month, corrected for Index errors, on the 29th, ..... = 33.4Difference, or Monthly Range, ..... = 29.1"Corrected Mean" of all the Highest, (Col. 5), ..... = 52.9"Corrected Mean" of all the Lowest, (Col. 6), ..... = 45.2Difference, or Mean Daily Range, ..... = 7.7\*\* Calculated Mean Temperature of Month, ..... = 49.0

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), ..... = 49.2Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), ..... = 47.0† Computed Temperature of Dew-Point, ..... = 44.6† Do. Elastic Force of Vapour, ..... = .296

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

† Relative Humidity, (Saturation = 100), ..... = 85RAIN fell on 18 Days; Amount in Inches, ..... = 3.16

WIND.		SUMMARY.					
Direction.	N	NE	E	SE	S	SW	W
A.M.	1	0	1	1	10	8	2
P.M.	2	0	0	1	13	4	2
Mean.	2	0	0	1	12	6	2

\* 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.  
† Endowing corrections for both capillarity and Index Errors.  
‡ The Diurnal Range for Scotland is as yet unknown.  
†† Practically, though not absolutely a minus correction.  
‡‡ These "Hygrometric Reductions" are calculated from Glaisher's Hygrometric Tables, Second Edition only.  
§ While the Diurnal Range is unknown, the Arithmetic Mean of Cols. 9 and 11 will be entered as the "Calculated Mean Temperature."  
Any Observations not taken under the conditions specified in the Directions on the other side, or noted at the Top of each column, must be marked as such by the observer, in each Schedule. See over.

Observations made and  
Return verified by James Dale - Teacher  
Rob. Gordon's Hospital, Aberdeen(Signed) James Dale

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## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Abdu, County of Aberdeen, in Lat. 59° 7' N, Long. 2° 6' W, Distance from Sea 1 mile.Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 2½ feet.During the MONTH of November 1878.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No. —				WIND.				RAIN.		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.	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.		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 Air, at 1 foot from ground.	Temperature at 1 foot from ground, and Dewy, and Dry.	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.	Direction.	Force.	Direction.	Force.	No.	Amount (0—6), and Direction.			Amount (0—10), and Species.	Amount (0—10), and Species.	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++ = 29.724  
for Temp. (Col. 2), = 29.760 ..... - .036...  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction++ = 29.703  
for Temp. (Col. 4), = 29.741 ..... - .038...  
Mean at Station, corrected, and at 32°..... = 29.713  
Correction for height, 66 feet above Mean Sea-level,..... = 0.074  
Mean, reduced to 32°, and Sea-level,..... = 29.787  
Highest Reading, corrected for Index error, on the 18 th, 9 P.M. = 30.262  
Lowest Do. Do., on the 10 th, 9 P.M. = 28.902  
Difference, or Monthly Range,..... = 1.360

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 21 st,..... = 48.7  
Lowest in Month, corrected for Index errors, on the 29 th,..... = 28.7  
Difference, or Monthly Range,..... = 20.0  
"Corrected Mean" of all the Highest, (Col. 5),..... = 42.9  
"Corrected Mean" of all the Lowest, (Col. 6),..... = 35.2  
Difference, or Mean Daily Range,..... = 7.7  
\*\* Calculated Mean Temperature of Month,..... = 39.0

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),..... = 39.2  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12),..... = 37.5  
# Computed Temperature of Dew-Point,..... = 35.3  
# Do. Elastic Force of Vapour,..... = .206  
# Do. Weight of Vapour in a Cubic Foot of Air, ... = 2.38  
# Relative Humidity, (Saturation = 100),..... = 86  
RAIN fell on 25 Days; Amount in Inches,..... = 3.60

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.		16	1	2	0	1	2	3	5	0	1.20
P.M.		11	0	2	0	0	0	1	6	10	0.98
Mean.		14	0	2	0	0	1	2	6	5	1.09 = 1.19

Observations made and Return verified by James Dale - Teacher  
Gordon's Hospital, Abdu

(Signed)

James DaleM.Greatest Daily Range = 12.1 on the 10 th







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Gordon's Hospital, Aberdeen, County of Aberdeen, in Lat. 57° 0' N., Long. 2° 6' W., Distance from Sea 1 miles.

Height of Cistern of the Barometer above Mean Sea-level 66 feet, above Ground 2 1/2 feet.

During the MONTH of December 1878.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER. No.				WIND.				RAIN.		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.		No. of hours in which it fell.	Amount in inches. No.	9 A.M.		P.M.		SUNSHINE. Hours.	9 h. A.M.			Temperature of WELL at depth of feet. No.	Temperature of Air, Sun, and Dew.	9 A.M.		9 P.M.	As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Barometer. * No.	Attached 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.			9 h. A.M.	Velocity (0-9), and Direction.	Amount (0-10), and Species.	Velocity (0-9), and Direction.		Amount (0-10), and Species.	No. 1. 3 inches.	No. 2. 12 inches.							No. 3. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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BAROMETER, "corrected Mean" at 9 A.M., minus the Correction†† = 29.592  
 for Temp. (Col. 2), = 29.572  
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction†† = 29.561  
 for Temp. (Col. 4), = 29.577  
 Mean at Station, corrected, and at 32° = 29.576  
 Correction for height, 66 feet above Mean Sea-level, = .078  
 Mean, reduced to 32°, and Sea-level, = 29.650  
 Highest Reading, corrected for Index error, on the 3 A.M., = 30.296  
 Lowest Do. Do., on the 31 A.M., = 28.716  
 Difference, or Monthly Range, = 1.580

S.-R. THERMOMETER, (in shade, etc.); Highest in Month, (corrected for Index Errors), on the 31 A.M., = 44.4  
 Lowest in Month, corrected for Index errors, on the 13 A.M., = 18.7  
 Difference, or Monthly Range, = 25.7  
 "Corrected Mean" of all the Highest, (Col. 5), = 35.2  
 "Corrected Mean" of all the Lowest, (Col. 6), = 28.6  
 Difference, or Mean Daily Range, = 6.6  
 \*\* Calculated Mean Temperature of Month, = 31.9  
 S.-R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 31 A.M., = 44.4  
 "Corrected Mean," (Col. 7), of Black Bulb, Max. in Sun, = 44.4  
 Lowest at Night, Black Bulb, (corrected for Index errors), on the 31 A.M., = 18.7  
 "Corrected Mean," (Col. 8), of Black Bulb, Min. on grass, = 28.6  
 Difference of above Means or Range ("exposed"), = 25.8

HYGROMETER, Mean (corrected) A.M. and P.M. Reading of Dry Bulb, (Cols. 9 and 11), = 32.6  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 31.4  
 ‡ Computed Temperature of Dew-Point, = 30.9  
 ‡ Do. Elastic Force of Vapour, = 1.76  
 ‡ Do. Weight of Vapour in a Cubic Foot of Air, = 1.98  
 ‡ Relative Humidity, (Saturation = 100), = 95  
 RAIN fell on 24 Days; Amount in Inches, = 4.69

WIND.		SUMMARY.									
Direction.	Force.	N	NE	E	SE	S	SW	W	NW	Mean Force.	Mean Velocity in miles per day.
A.M.	5	0	2	1	1	2	4	13	3	1.23	
P.M.	6	0	1	2	2	3	4	8	5	1.08	
Mean.	6	0	2	1	2	2	4	10	4	1.16	1.34

Observations made and Return verified by James Dale, Teacher  
Gordon's Hospital, Aberdeen

(Signed) James Dale

Greatest daily range = 16.3 on the 18<sup>th</sup>



