

## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Forest of Glen Tana, Co. Wick*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *35* miles.

Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet.

During the MONTH of *January* 188*1*.

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.		No. 8 inches.	No. 12 inches.	No. 22 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Barometer. * No.	Attached Thermometer.	Barometer. No.	Attached Thermometer.	Max. No.	Min. No.	Max. in Sun. Grass.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.				Direction.	Force.	Direction.	Force.				No.	Velocity (0-10), and Direction.					Amount (0-10), and Species.	No.	Velocity (0-10), and Direction.	Amount (0-10), and Species.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\ddagger$  for Temp. (Col. 2), = \_\_\_\_\_"Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\ddagger$  for Temp. (Col. 4), = \_\_\_\_\_

Mean at Station, corrected, and at 32', = \_\_\_\_\_

Correction for height, feet above Mean Sea-level, = \_\_\_\_\_

Mean, reduced to 32', and Sea-level, = \_\_\_\_\_

Highest Reading, corrected for Index error, on the 14 th, = 30.460

Lowest Do. Do., on the 23 th, = 29.000

Difference, or Monthly Range, = 1.460

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 2 th, = 54.0

Lowest in Month, corrected for Index errors, on the th, = 0.0

Difference, or Monthly Range, = 54.0

"Corrected Mean" of all the Highest, (Col. 5), = 40.5

"Corrected Mean" of all the Lowest, (Col. 6), = 25.0

Difference, or Mean Daily Range, = 15.5

\*\* Calculated Mean Temperature of Month, = 32.5

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), = 34.3

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 32.0

Computed Temperature of Dew-Point, = 28.1

Do. Elastic Force of Vapour, = 153

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

Relative Humidity (Saturation = 100), = 77

RAIN fell on 5 Days; Amount in Inches, = 1.43

WIND.		SUMMARY.							
Direction.		N	NE	E	SE	S	SW	W	NW
A.M.	8		1	3	7	2	9	1	
P.M.	9	1	2	7	4	7	1		
Mean.	8	1	2	7	3	8	1	0	

4.38

Observations made and  
Return verified by

(Signed) Robert Warburton Glen Tana Abney







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Glen Tana Alayne*, County of *Aberdeenshire*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *35* miles.

Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet.

During the MONTH of *February* 1891.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			SEA. Temperature at 10 fms. 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.  <i>Mention the hour at which Storms, including Thunder and Lightning, began and ended.</i>	Days of Month.				
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 A.M.		P.M.			9 h. A.M.										
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max. No.	Min. No.	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.	Readings of the H. Cup Anemometer. No.	9 h. A.M.		Velocity (0-6) 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.
		Inches.	°	Inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°		°	°	°					°	°	°	°
	1	29.93	46	30.12	50	42	27			37	36	45	43			W	1	H	2		E	1		10	6						1.			
	2	30.03	52	30.02	57	50	29			49	45	50	48			SH	3	H	2			10		10	6						2.			
	3	30.02	55	30.26	58	54	40			51	47	39	38	0.20		H	2	H	2			10		10	2						3.			
	4	30.44	53	30.39	53	52	25			39	37	44	41			SH	1	H	2		SE	6		10	4						4.			
	5	30.39	51	30.86	52	54	23			43	40	50	49			H	1	H	2			10		10	6						5.			
	6	30.31	51	30.80	46	53	27			47	43	47	45			H	1	S	2			10		10	6						6.			
	7	30.21	44	30.11	49	53	20			46	44	36	34			SH	1	H	2		SH	7		10	5						7.			
	8	30.26	47	30.29	45	48	24			34	33	32	30			H	1	H	2		S	2			7						8.			
	9	30.16	44	29.81	49	44	16			39	34	45	43			H	2	H	2						6						9.			
	10	29.94	47	29.7	50	46	27			44	39	49	48			H	3	H	3			10		10	5						10.			
	11	29.65	53	29.54	44	52	34			52	47	29	27			H	2	H	5			10		10	6						11.			
	12	30.1	46	30.1	40	56	16			28	26	31	30			H	1	H	2			10			4						12.			
	13	30.37	46	30.22	50	39	17			29	28	40	39			H	1	H	2			10		10	2						13.			
	14	30.26	49	30.26	50	45	19			44	43	43	42			H	2	H	1			10	SH	5	5						14.			
	15	30.26	48	30.28	53	58	30			42	41	45	43			SH	2	H	2		NE	6			8						15.			
	16	30.3	53	30.36	57	58	30			44	43	37	35			N	1	H	1			10		10	8						16.			
	17	30.39	48	30.31	50	57	20			33	32	30	30			S	1	H	1			10			8						17.			
	18	30.4	46	30.32	48	54	18			29	28	39	30			H	1	H	1						7						18.			
	19	30.37	45	30.24	49	52	18			28	27	40	39			H	1	H	1						8						19.			
	20	30.24	45	30.17	47	61	18			30	28	30	29			H	1	NW	2		SH	5			8						20.			
	21	30.12	40	30.12	49	59	11			22	21	27	25			NE	1	N	2			10		10	5						21.			
	22	30.14	45	30.12	49	42	11			31	30	45	40			S	1	S	2			10			4						22.			
	23	30.17	52	30.18	53	54	21			49	40	47	45			S	2	S	3			10		10	6						23.			
	24	30.18	56	30.08	56	61	38			57	45	43	40			H	2	S	1			10			5						24.			
	25	30	53	29.82	49	63	26			45	37	32	30			S	2	H	1			10			7						25.			
	26	29.88	46	29.78	50	56	12			28	27	27	25			H	1	H	1						8						26.			
	27	30.03	45	30.06	50	38	12			23	22	41	37			H	1	H	1			10		10	3						27.			
	28	29.87	48	29.6	56	40	14			44	39	50	45			H	2	H	1			10			7						28.			
	29																															29.		
	30																															30.		
	31																															31.		
Sums.		411	233	319	3	47	623			231	162	276	210			41	51																	
Means.		30.147	483	30.114	501	57	222			38.6358	349	375				146	182																	
+ Total Corrections for Instrumental Errors.																																		
+ Corrections for Diurnal Range.																																		
"Corrected Means."																																		
No. of Column.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			

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

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

## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

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

Mean at Station, corrected, and at 32°, = \_\_\_\_\_

Correction for height, \_\_\_\_\_ feet above Mean Sea-level, = \_\_\_\_\_

Mean, reduced to 32°, and Sea-level, = \_\_\_\_\_

Highest Reading, corrected for Index error, on the *4* th., = *30.440*Lowest Do. Do., on the *11* th., = *29.540*Difference, or Monthly Range, = *0.900*S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the *25* th., = *63.0*Lowest in Month, corrected for Index errors, on the *21* th., = *19.0*Difference, or Monthly Range, = *44.0*"Corrected Mean" of all the Highest, (Col. 5), = *51.7*"Corrected Mean" of all the Lowest, (Col. 6), = *30.2*Difference, or Mean Daily Range, = *21.5*\*\* Calculated Mean Temperature of Month, = *41.0*

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), = *39.3*Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *36.6*\*\* Computed Temperature of Dew-Point, = *33.0*\*\* Do. Elastic Force of Vapour, = *189*

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

\*\* Relative Humidity (Saturation = 100), = *79*

RAIN fell on \_\_\_\_\_ Days; Amount in Inches, = \_\_\_\_\_

WIND.		SUMMARY.			
Direction.		N	NE	E	SE
A.M.		1			4
P.M.		1	1		4
Mean.		1	0	0	4

2.69

Observations made and  
Return verified by(Signed) *R. Warburton Glen Tana*







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Glen Tana Aboyne, County of Aberdeen, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea 35 miles.  
Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet. During the MONTH of March 1891.  
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.								SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE.	THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.  As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.	
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.					
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force.	Direction.	Force.		Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	No. 3 inches.	No. 12 inches.	No. 22 inches.	No. 3 inches.		No. 12 inches.	No. 22 inches.						
		* No.	inches.	No.	inches.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.	No.	No.	No.	No.	No.		No.	No.	No.					No.
		inches.	°	inches.	°	°	°	°	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°		°	°	°					°
	1	29.62	58	29.62	55	50	32			54	48	43	40		W	4	H	3	NE	6	—	8								Very stormy	1				
	2	29.58	55	29.57	50	65	29			40	35	44	41		NW	2	H	2	SW	8	—	—									2				
	3	29.7	48	29.91	49	46	21			34	33	44	41		H	3	H	4		10	—	2								Stormy winds	3				
	4	29.62	52	29.61	49	55	10			47	43	40	38		H	4	H	4		10	10	6								Showers of snow very windy	4				
	5	29.7	51	29.51	53	55	10			38	36	42	40		H	2	H	2		10	10	8									5				
	6	29.45	49	29.5	48	47	27			38	37	29	28		N	2	NW	2	SW	4	—	6									6				
	7	29.53	45	29.63	47	40	16			27	26	18	17		N	1	N	1		—	—	7									7				
	8	29.66	43	29.75	43	37	7			27	26	28	27		N	1	NW	2	SE	6	—	8									8				
	9	29.78	41	29.67	43	31	11			26	25	28	26		H	3	N	2		10	—	6									9				
	10	29.6	41	29.48	44	37	15			25	23	27	25	0.016	N	2	N	1		10	10	4								Fall of snow 1" deep	10				
	11	29.51	41	29.53	45	35	12			29	28	30	29	0.025	N	2	N	1		10	10	3								Fall of snow 3" deep	11				
	12	29.6	43	29.67	41	35	12			29	28	25	23	0.015	H	2	N	1		10	—	3								" " " 1" deep	12				
	13	29.84	37	29.82	44	36	5			22	21	27	25		H	1	H	1		—	—	6									13				
	14	29.63	41	29.62	45	44	9			34	33	29	27		S	2	SW	2	SE	5	—	8									14				
	15	29.35	43	29.28	47	41	19			33	32	33	32	0.020	S	2	E	3		10	10	—								Very stormy showers of sleet & snow	15				
	16	29.56	45	29.71	47	40	23			35	34	35	34	0.030	E	2	E	1		10	—	3								Very stormy showers of sleet & snow	16				
	17	29.8	46	29.98	44	38	23			34	33	37	35	0.065	NW	2	H	1		10	10	—								Fall of snow 3" deep with sleet & rain	17				
	18	30.04	45	29.9	46	38	24			36	34	35	34		N	1	N	1		10	10	2									18				
	19	29.9	43	29.71	48	41	24			33	32	39	37		N	3	N	3		10	10	4									19				
	20	29.76	44	29.81	48	39	24			36	34	37	35		N	2	N	1		10	10	2								Showers of snow & hail through the day	20				
	21	29.84	46	29.85	46	40	29			35	33	37	35		N	1	N	1		10	10	2									21				
	22	29.88	44	29.8	51	40	27			37	34	35	33		H	1	H	1		10	—	1									22				
	23	29.73	49	29.51	50	46	25			39	35	37	34		SW	2	H	1	SE	6	SW	7	5								23				
	24	29.45	47	29.2	53	49	23			38	34	36	33		H	2	NW	2	NE	6	—	10	10								24				
	25	29.12	49	28.99	47	46	22			39	35	35	33		N	3	H	2	H	2	10	7								Very stormy all day	25				
	26	29.55	44	29.31	46	41	21			34	33	31	28	0.30	H	4	N	4		10	10	5								Snow 2" deep showers of snow through the day	26				
	27	29.27	44	29.29	50	39	20			33	32	33	32	0.32	N	3	N	4		10	10	1								very stormy with showers of sleet & snow & heavy winds	27				
	28	29.63	58	29.41	49	89	25			36	34	29	27		N	2	N	3		10	10	2								Snow showers at intervals through the day	28				
	29	29.5	45	29.51	46	41	19			27	26	30	28		N	3	N	1		10	10	3								Very stormy drifting showers of snow all day	29				
	30	29.67	45	29.78	45	40	17			31	30	30	29		N	1	N	1		10	10	2									30				
	31	29.91	46	29.8	47	39	21			35	33	28	27							10	10	6									31				
	Sums.	1928	188	1873	226	75	581			131	70	101	43	2.33		65	58																		
	Means.	29.622	46.1	29.604	47.3	42.4	18.1			34.2	32.3	33.3	31.4			3.17	1.93																		
	+ Total Corrections for Instrumental Errors.						+80																												
	+ Corrections for Diurnal Range.																																		
	"Corrected Means."						26.1																												
	No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\frac{1}{10}$  for Temp. (Col. 2), = \_\_\_\_\_  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\frac{1}{10}$  for Temp. (Col. 4), = \_\_\_\_\_  
Mean at Station, corrected, and at 32°, = \_\_\_\_\_  
Correction for height, feet above Mean Sea-level, = \_\_\_\_\_  
Mean, reduced to 32°, and Sea-level, = \_\_\_\_\_  
Highest Reading, corrected for Index error, on the 18th, = 30.040  
Lowest Do. Do., on the 25th, = 28.990  
Difference, or Monthly Range, = 1.050

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 2th, = 65.0  
Lowest in Month, corrected for Index errors, on the 14th, = 1.0  
Difference, or Monthly Range, = 66.0  
"Corrected Mean" of all the Highest, (Col. 5), = 42.4  
"Corrected Mean" of all the Lowest, (Col. 6), = 26.1  
Difference, or Mean Daily Range, = 16.3  
\*\* Calculated Mean Temperature of Month, = 34.2

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), = 33.8

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 31.8

Computed Temperature of Dew-Point, = 28.2

Do. Elastic Force of Vapour, = 164

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

Relative Humidity (Saturation = 100), = 80

RAIN fell on 8 Days; Amount in Inches, = 2.33

WIND.												SUMMARY.		
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.			
A.M.	12	1			2	1	12	2		3.15				
P.M.	13	2				1	11	3		1.93				
Mean.	13	0.2	0	1	1	1	11	3	0	2.55				

650

Observations made and  
Return verified by

(Signed)

R. Warburton Glen Tana







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Glen Tana, Abayne*, County of *Aberdeen*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *35* miles.

Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet.

During the MONTH of *April* 189*7*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			Temperature of Well at Depth of 100 fathoms.	SEA. Temperature 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.		9 h. A.M.		9 h. 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.	Amount (0-10), and Species.	Amount (0-10), and Species.	No. 3 inches.	No. 12 inches.		No. 22 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	29.83	43	29.71	47	45	16			30	29	36	34		S	1	SW	2		10		10		3						1.	
	2	29.76	46	29.75	48	41	19			35	33	33	31		S	2	S	3		10		10		4						2.	
	3	29.75	46	29.69	46	40	21			37	36	35	33		SE	2	S	3		10		10		2						3.	
	4	29.69	45	29.64	48	38	20			35	33	37	35	0.30	S	4	SE	2		10		10		—						4.	
	5	29.67	47	29.7-49	40	25				36	35	32	30	0.15	E	2	N	1		10		10		—						5.	
	6	29.79	48	29.8-47	39	26				33	31	32	30	0.12	NE	1	NE	2		10		10		2						6.	
	7	29.91	46	29.98	48	40	27			36	35	35	34		E	2	N	1		10		10		2						7.	
	8	30.05	47	30.02	50	39	24			37	35	37	35		N	1	N	1		10		10		1						8.	
	9	30.11	48	30.09	45	44	25			35	34	33	31		N	1	N	2		10		10		3						9.	
	10	30.11	46	30.55	50	47	20			42	37	39	37		SW	1	S	1	SE	9		10		6						10.	
	11	30.13	47	30.15	45	48	21			41	38	31	29		S	2	N	1		10		—		8						11.	
	12	30.17	42	30.14	47	49	14			38	36	35	33		N	1	N	1	SE	9		10		10						12.	
	13	30.1-46	30.1-44	46	22					33	32	25	23		SE	1	H	1		10		—		9						13.	
	14	30.05	42	29.99	46	45	13			28	26	35	32		H	1	H	1		—		—		6						14.	
	15	29.95	44	29.88	48	51	18			42	38	37	35		W	1	H	2		10		10		9						15.	
	16	29.8-46	29.91	47	52	26				37	36	36	34	0.25	W	3	N	2		10		10		4						16.	
	17	30.04	46	30.05	44	48	27			40	38	39	37		N	2	N	2		10		10		7						17.	
	18	30.08	46	30.11	42	49	21			42	38	35	33		N	1	N	1		10		—		5						18.	
	19	30.12	40	30.2-44	50	75				38	36	33	32		N	1	N	1	NE	3		—		9						19.	
	20	30.26	41	30.26	43	52	17			42	38	35	33		N	1	SH	1	NE	2		10		6						20.	
	21	30.31	42	30.21	49	52	14			38	32	35	32	0.10	N	1	SE	2		10		10		5						21.	
	22	30.23	47	30.19	51	52	19			39	37	35	33	0.10	N	1	N	1		10		10		8						22.	
	23	30.24	48	30.21	49	48	27			39	37	39	37		N	1	N	2		10		10		6						23.	
	24	30.22	47	30.11	46	46	39			41	38	40	38		N	2	N	1		10	SE	8		6						24.	
	25	30.1-45	29.92	47	46	36				39	35	30	28		N	1	N	1	NE	8	NH	9		9						25.	
	26	29.85	44	29.72	40	52	20			42	37	29	27		NH	2	N	1		10		10		10						26.	
	27	29.68	43	29.49	51	53	20			44	40	40	38		NH	2	N	1	NE	9		10		9						27.	
	28	29.36	49	29.45	48	54	30			43	37	37	35		S	1	N	1	NH	5		10		10						28.	
	29	29.49	46	29.29	48	48	25			35	33	43	41	0.24	H	2	H	1	NH	8		10		6						29.	
	30	29.33	46	29.31	55	48	21			48	46	50	48	0.02	H	2	S	2		10		10		6						30.	
	31																														31.
Sums.		12.12	15	12.11	16	14	12			14	16	13	12	1.08		16		45													
Means.		29.939	45.3	29.900	45.1	46.7	27.1			38.0	35.5	35.9	33.9			1.53		1.50													
+ Total Corrections for Instrumental Errors.																															
+ Corrections for Diurnal Range.																															
"Corrected Means."																															
No. of Column.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

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

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

## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.	Estimated Force, 0-6.	Common Designation.
0	Calm	1-3	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  $\frac{1}{2}$  for Temp. (Col. 2), = \_\_\_\_\_"Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\frac{1}{2}$  for Temp. (Col. 4), = \_\_\_\_\_

Mean at Station, corrected, and at 32°, = \_\_\_\_\_

Correction for height, feet above Mean Sea-level, = \_\_\_\_\_

Mean, reduced to 32°, and Sea-level, = \_\_\_\_\_

Highest Reading, corrected for Index error, on the 21<sup>st</sup>, = 30.310Lowest Do. Do., on the 29<sup>th</sup>, = 29.290

Difference, or Monthly Range, = 1.020

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 28<sup>th</sup>, = 54.0Lowest in Month, corrected for Index errors, on the 14<sup>th</sup>, = 21.0

Difference, or Monthly Range, = 33.0

"Corrected Mean" of all the Highest, (Col. 5), = 46.7

"Corrected Mean" of all the Lowest, (Col. 6), = 30.8

Difference, or Mean Daily Range, = 15.9

\*\* Calculated Mean Temperature of Month, = 38.4

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

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

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

"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), = 37.0

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 34.7

Computed Temperature of Dew-Point, = 31.5

Do. Elastic Force of Vapour, = 177

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

Relative Humidity (Saturation = 100), = 81

RAIN fell on 6 Days; Amount in Inches, = 1.08

WIND. SUMMARY.											
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	12	1	2	2	5	1	5	2		153	
P.M.	17	1	2	4	2	4				150	
Mean.	14	1	2	4	2	5	1	0		152	2.31

Observations made and  
Return verified by(Signed) *R. Warburton Glen Tana*







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Foriesty Glen Tana, County of Abertshire, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea 35 miles.  
Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet. During the MONTH of May 1891.

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. Sun's rays Grass.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer. No.	9 A.M.		P.M.		SUNSHINE. Hours.	9 h. A.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Barometer. * No.	Attached Ther- mometer No.	Barometer. No.	Attached Ther- mometer No.	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) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.	Amount (0-10), and Species.		No. 1 inches.					No. 2 inches.	No. 3 inches.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\ddagger$  for Temp. (Col. 2), = \_\_\_\_\_  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\ddagger$  for Temp. (Col. 4), = \_\_\_\_\_  
Mean at Station, corrected, and at 32°, = \_\_\_\_\_  
Correction for height, feet above Mean Sea-level, = \_\_\_\_\_  
Mean, reduced to 32°, and Sea-level, = \_\_\_\_\_  
Highest Reading, corrected for Index error, on the 11 th., = 30.150  
Lowest Do. Do., on the 1 th., = 29.090  
Difference, or Monthly Range, = 1.060

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 12 th., = 77.0  
Lowest in Month, corrected for Index errors, on the 24 th., = 28.0  
Difference, or Monthly Range, = 49.0  
"Corrected Mean" of all the Highest, (Col. 5), = 53.7  
"Corrected Mean" of all the Lowest, (Col. 6), = 36.2  
Difference, or Mean Daily Range, = 17.5  
\*\* Calculated Mean Temperature of Month, = 45.0

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), = 42.3  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 40.2  
\*\* Computed Temperature of Dew-Point, = 37.7  
\*\* Do. Elastic Force of Vapour, = 22.6  
\*\* Do. Weight of Vapour in a Cubic Foot of Air, = \_\_\_\_\_  
\*\* Relative Humidity (Saturation = 100), = 84  
RAIN fell on 9 Days; Amount in Inches, = 1.95

WIND.		SUMMARY.			
Direction.		N	NE	E	SE
A.M.	14	3	1	2	1
P.M.	16	1	6	1	4
Mean.	15	1	1.4	1.5	3

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(Signed) R. Warburton Glen Tana

Observations made and  
Return verified by







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at Glen Tana Abayne, County of Aberdeen Shire, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea 35 miles.

Height of Cistern of the Barometer above Mean Sea-Level\_\_\_\_\_feet, above Ground\_\_\_\_\_feet.

During the MONTH of June 1891.

The Hours of Observation are of Greenwich Time.

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

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

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

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

Mean, reduced to 32°, and Sea-level, .....

Highest Reading, corrected for Index error, on the 22th,.....

Lowest Do. Do., on the 27<sup>th</sup>,...

Difference, or Monthly Range, .....

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 23th,..... = 76.0

Lowest in Month, corrected for Index errors, on the 9 th, ..... 28-0

Difference, or Monthly Range, ..... = 48.0

"Corrected Mean" of all the Highest, (Col. 5), ..... = 65.0

"Corrected Mean" of all the Lowest, (Col. 6),..... 44-6

Difference, or Mean Daily Range, ..... = 20.4

\*\* Calculated **Mean Temperature** of Month, ..... = 54.8

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 1<sup>st</sup> 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), ..... = 52.9

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 14-15)

10 and 12), ..... = 507

\*\*\* Computed Temperature of Dew-Point, ..... = 48-5

Do. Elastic Force of Vapour, .....	341
------------------------------------	-----

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

Relative Humidity (Saturation = 100), ..... 80

IN fell on 0 Days; Amount in Inches, ..... = 0.63

WIND.					SUMMARY.						
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
A.M.	4	8	6		2	2	3	5		120	
P.M.	12	4	3		3	2	3	3		123	
Mean.	8	6	4	0	3	2	3	4	0	122	

Observations made and  
Return verified by

(Signed) R Warburton Glen Tana Alorpu







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Glen Tana Abnaye*, County of *Aberdeen*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *35* miles.  
Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet. During the MONTH of *July* 18*91*.  
The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.		WIND.				CLOUDS.				SUNSHINE. HOURS.	THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.		Days of Month.					
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs. Grass.		9 h. A.M.		9 h. P.M.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		Readings of the H. Cup Anemometer. No.	9 h. A.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, &c.	Temperature at 1 foot, and Density.		0-10.	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.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sunrays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.								No. 3 inches.									No. 12 inches.	No. 22 inches.
		* No.	inches.	°	inches.	°	°	°	°	°	°	°	°			°	No.	No.	No.								No.									9 h. A.M.	9 h. P.M.
	1	29.52	60	29.58	65	65	42			64	62	56	53			S	1	N	1					10	10	4							1				
	2	29.57	59	29.52	60	67	42			54	53	53	51	0.25		N	1	NW	1					10	10	8							2				
	3	29.55	58	29.69	58	64	42			55	53	52	50	0.5		S	1	W	1					10	10	4							3				
	4	29.75	56	29.8	60	59	41			53	51	53	51	0.47		H	2	W	1					10	10	2							4				
	5	29.79	57	29.79	59	62	41			57	53	53	51			S	2	NE	2					10	10	1							5				
	6	29.49	58	29.36	59	59	40			54	53	55	53	0.17		SE	1	W	1					10	10	3							6				
	7	29.31	57	29.49	59	65	36			55	54	51	50	0.24		H	1	W	1					10	10	1							7				
	8	29.59	57	29.89	56	59	40			53	52	52	50			N	2	N	2					10	10								8				
	9	29.98	54	30.01	54	55	38			48	47	51	50			N	2	NW	1					10	10	5							9				
	10	29.95	56	29.91	61	60	34			55	53	57	55			H	1	N	2					NE 6	10	9							10				
	11	29.87	58	29.82	57	72	40			55	54	57	50			NE	2	N	1					10	10	10							11				
	12	29.82	59	29.91	60	63	40			53	57	53	53	0.3		NW	1	H	1					10	10	10							12				
	13	30.04	61	30.13	58	67	41			58	57	55	53	0.8		H	1	W	1					10	10	6							13				
	14	30.28	60	30.23	59	68	41			58	58	59	60			N	1	N	1					10	10	6							14				
	15	30.15	57	29.96	60	69	36			57	55	57	55			N	1	N	1					NE 9	10	8							15				
	16	29.82	59	29.71	63	63	43			55	54	59	57	0.15		N	2	N	1					10	10	6							16				
	17	29.65	61	29.72	60	68	46			58	57	57	55			NE	1	N	1					10		4							17				
	18	29.79	59	29.79	59	64	39			60	48	58	56	0.20		E	1	N	1							6							18				
	19	29.76	60			71	39			59	57	55	53	0.40		SH	1	S	1					10	10	5							19				
	20	29.7	60	29.72	62	72	38			58	56	59	57			S	2	S	1					10	10	7							20				
	21	29.7	58	29.62	61	65	44			63	60	55	53	0.10		S	1	S	2					10	10	5							21				
	22	29.64	60	29.71	57	68	45			54	53	53	51	0.25		NW	2	N	2					10	10	2							22				
	23	29.82	59	29.79	62	61	45			55	54	57	55	0.60		N	2	N	1					10	10	3							23				
	24	29.75	59	29.79	57	62	44			59	57	53	51			NW	2	NW	1					10	10	6							24				
	25	29.86	58	29.87	60	66	44			54	53	49	47			H	3	H	2					10	10	9							25				
	26	29.86	59	29.79	60	69	40			50	48	45	45			H	2	H	1					10	10	10							26				
	27	29.57	57	29.49	45	67	35			50	48	48	47	0.8		NE	1	N	4					NE 4	10	5							27				
	28	29.51	57	29.49	49	58	37			47	46	41	49			N	4	N	4					10	10	2							28				
	29	29.49	53	29.5	58	54	36			50	49	54	49			N	3	N	2					10	10	3							29				
	30	29.7	58	29.8	57	60	41			52	50	51	50			N	2	N	1					10	10	6							30				
	31	29.87	57	29.81	58	61	39			49	48	55	53			N	1	N	1					10	10	8							31				
	Sums.	233	3	249	226	253	122	07		154	94	108	51	3.60			50		44																		
	Means.	29.753	580	29.756	584	639	402			54.953	530	532	516				1.61		1.42																		
	+ Total Corrections for Instrumental Errors.						+80																														
	+ Corrections for Diurnal Range.																																				
	"Corrected Means."																																				
	No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						

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

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

## NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	" "	ms.	" "
ci-cu.	" "	n.	" "
ci-s.	" "	r.	" "
cu.	" "	h. r.	" "
cu-s.	" "	c. h. r.	" "
d.	" "	s.	" "
f.	" "	so.	" "
fr.	" "	s.	" "
h-fr.	" "	so. ha.	" "
h.	" "	sq.	" "
h. d.	" "	sq.	" "
li.	" "	sq.	" "
li.	" "	sq.	" "
li. cl.	" "	t. s.	" "
li. sh.	" "	w.	" "
lu. co.	" "	g.	" "
lu. ha.	" "	g.	" "

## TABLE FOR ESTIMATING FORCE OF WIND.

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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\frac{1}{10}$  for Temp. (Col. 2), = \_\_\_\_\_  
"Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\frac{1}{10}$  for Temp. (Col. 4), = \_\_\_\_\_  
Mean at Station, corrected, and at 32', = \_\_\_\_\_  
Correction for height, feet above Mean Sea-level, = \_\_\_\_\_  
Mean, reduced to 32', and Sea-level, = \_\_\_\_\_  
Highest Reading, corrected for Index error, on the 14th, = 30.280  
Lowest Do. Do., on the 7th, = 29.310  
Difference, or Monthly Range, = 0.970

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 11th, = 72.0  
Lowest in Month, corrected for Index errors, on the 10th, = 42.0  
Difference, or Monthly Range, = 30.0  
"Corrected Mean" of all the Highest, (Col. 5), = 63.9  
"Corrected Mean" of all the Lowest, (Col. 6), = 48.2  
Difference, or Mean Daily Range, = 15.7  
\*\* Calculated Mean Temperature of Month, = 56.0

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), = 54.0  
Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 52.3  
\*\* Computed Temperature of Dew-Point, = 50.6  
\*\* Do. Elastic Force of Vapour, = 36.8  
\*\* Do. Weight of Vapour in a Cubic Foot of Air, = \_\_\_\_\_  
\*\* Relative Humidity (Saturation = 100), = 88  
RAIN fell on 14 Days; Amount in Inches, = 3.60

WIND.		SUMMARY.			
Direction.	N	NE	E	SE	S
A.M.	11	3	1	1	5
P.M.	11	3	1	1	5
Mean.	14	2	0	0	4

Observations made and  
Return verified by

(Signed)

*R. Harburtson Glen Tana*







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Glen Tanaboyne*, County of *Aberdeen*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *85* miles.

Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet.

During the MONTH of *August* 189*1*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.		WIND.				CLOUDS.				SUNSHINE. Hours.	THERMOMETERS under Ground.			SEA. Temperature 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.		No. of hours in which it fell.	Amount in inches.	9 h. A.M.		9 h. P.M.		9 A.M. Velocity (0-10), and Direction.	P.M. Velocity (0-10), and Direction.	9 h. A.M.													
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sunrays	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.			Direction.	Force.	Direction.	Force.			No.	Amount (0-6) and Species.		Amount (0-6) and Species.	No.	3 inches.					No.	12 inches.	No.	22 inches.
		* No.	inches.	No.	inches.	No.	No.	No.	No.	No.	No.	No.	No.			No.	No.	No.	No.			No.	No.		No.	No.	No.					No.	No.	No.	No.
		1	29.7656	29.6159	64.33	55.52	57.55	SE	1	S	1	10	10	10	2	NE	8	10	7														1		
2	29.5857	29.4958	69.35	52.51	51.49	0.15	S	1	SW	2																2									
3	29.4754	29.4959	65.30	48.47	54.53	0.65	N	1	S	2																3									
4	29.5557	29.6958	60.39	44.43	53.52	0.30	NE	2	N	2																4									
5	29.7957	29.8158	61.43	52.50	51.48		N	1	N	2																5									
6	29.8856	29.8259	56.39	50.47	47.45		NH	3	H	1																6									
7	29.7657	29.8-62	61.42	55.54	55.53		H	1	H	2																7									
8	29.7660	29.6158	66.44	55.54	53.57	0.30	H	2	N	1																8									
9	29.6757	29.5-49	61.34	57.55	50.48	0.70	NH	2	S	3																9									
10	29.6757	29.6159	60.38	48.46	50.49		H	1	NH	2																10									
11	29.6957	29.5-50	60.32	54.52	60.49		H	1	SH	2																11									
12	29.4-47	29.3460	65.40	53.52	55.53		S	1	H	2																12									
13	29.6-58	29.7257	64.34	53.52	52.50	0.50	H	3	H	1																13									
14	29.7356	29.7160	62.36	50.49	49.47		H	1	H	1																14									
15	29.5859	29.6-60	65.41	58.57	53.51		H	2	H	2																15									
16	29.8158	29.8658	66.40	51.50	51.49		N	2	S	2																16									
17	29.8258	29.6159	59.37	49.48	55.54	0.07	S	1	S	3																17									
18	29.5358	29.4960	56.29	54.53	53.51	0.035	S	3	S	2																18									
19	29.4558	29.4857	58.45	55.54	53.50	0.07	NE	1	H	1																19									
20	29.4955	29.4252	59.42	53.57	57.55	0.010	N	1	SE	2																20									
21	29.4158	29.5154	60.45	50.49	53.51	0.087	S	2	N	1																21									
22	29.6153	29.6950	68.33	53.52	51.49	0.01	NE	2	N	1																22									
23	29.6752	29.6752	63.32	50.48	49.47		N	1	NH	2																23									
24	29.6-50	29.3965	60.28	42.41	47.45		SH	1	S	2																24									
25	29.1357	28.9960	59.33	55.57	50.48		SH	1	H	1																25									
26	28.6-59	29.1959	63.42	55.52	55.53	0.010	SE	2	SE	2																26									
27	29.2457	29.1258	65.39	53.57	54.51		H	1	H	1																27									
28	29.2-56	29.4957	64.36	55.53	50.48		H	1	H	1																28									
29	29.6554	29.8157	62.30	48.47	50.48	0.010	H	1	H	2																29									
30	29.8750	29.6958	58.28	51.50	50.49	0.02	NE	2	S	2																30									
31	29.4156	28.9159	59.40	49.48	47.46	0.025	S	3	S	3																31									
Stms.	1738	179	1662	220	46	219			57	11	55	307	32		48	54																			
Means.	29.561	558	29.536	573	615	480			57.8	50.4	57.8	499			1.55	174																			
+ Total Corrections for Instrumental Errors.																																			
+ Corrections for Diurnal Range.																																			
**Corrected Means.																																			
No. of Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					

## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

BAROMETER, "corrected Mean" at 9 A.M., minus the Correction  $\ddagger$  for Temp. (Col. 2), = \_\_\_\_\_"Corrected Mean" of Barometer at 9 P.M., minus the Correction  $\ddagger$  for Temp. (Col. 4), = \_\_\_\_\_

Mean at Station, corrected, and at 32', = \_\_\_\_\_

Correction for height, feet above Mean Sea-level, = \_\_\_\_\_

Mean, reduced to 32', and Sea-level, = \_\_\_\_\_

Highest Reading, corrected for Index error, on the 6 th., = 29.880

Lowest Do. Do., on the 28 th., = 28.600

Difference, or Monthly Range, = 1.280

S-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 2 th., = 69.0

Lowest in Month, corrected for Index errors, on the 24 th., = 36.0

Difference, or Monthly Range, = 33.0

"Corrected Mean" of all the Highest, (Col. 5), = 61.5

"Corrected Mean" of all the Lowest, (Col. 6), = 45.1

Difference, or Mean Daily Range, = 16.4

\*\* Calculated Mean Temperature of Month, = 53.3

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), = 57.8

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 50.2

Computed Temperature of Dew-Point, = 48.6

Do. Elastic Force of Vapour, = 134.3

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

Relative Humidity (Saturation = 100), = 88

RAIN fell on 16 Days; Amount in Inches, = 2.83

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.
A.M.	5-4		2	6	2	10	2			1.55
P.M.	5		1	9	3	11	2			1.74
Mean.	5-2-6		2	7	3	10	2	0		1.64

2.69

Observations made and  
Return verified by  
\_\_\_\_\_

(Signed)

R. Warburton Glen Tana Abayne







## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Forest of Glen Tanna* County of *Aberdeenshire*, in Lat. , Long. , Distance from Sea *35* miles.

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

During the MONTH of *September* 18*91*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.								SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.  As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.		
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.										
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max.	Min.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	No. of hours in which it fell.	Amount in inches.	Direction.	Force.		Direction.	Force.	Readings of the H. Opp. Anemometer. No.	9 h. A.M.	9 h. P.M.	9 h. A.M.	9 h. P.M.	No.	No.	No.							
		* No.		No.		No.	No.	No.	No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.																						
		inches.		inches.																															
	1	28.71	57	28.71	60	59.40				43.42	53.51			0.05	S	4	S	4		10	10	4								1					
	2	29.5	58	29.45	59	59.46				55.54	50.48				H	4	H	1				9								2					
	3	29.7	55	29.79	57	61.32				53.52	45.43				NH	4	S	2		10	10	10								3					
	4	29.83	53	29.55	57	64.39				45.44	49.47				N	1	S	1		NE	3	7									4				
	5	29.8	50	29.8	53	65.29				54.53	51.49			0.03	SH	3	N	2		NE	8	10	5								5				
	6	29.43	58	29.45	58	61.36				54.53	52.51			0.02	H	2	N	1		N	7	10	6								6				
	7	29.65	55	29.82	53	60.36				51.50	39.37				NH	3	H	1		NE	9	10	10								7				
	8	29.92	51	29.89	56	62.24				38.37	49.47				S	1	S	2		10	10	6									8				
	9	29.94	58	29.89	59	65.29				56.55	59.57				S	1	H	1			10	3									9				
	10	29.95	62	29.88	60	65.46				62.61	57.55				S	2	SH	1		NE	9	10									10				
	11	29.98	62	29.91	65	77.43				63.60	60.57				NE	1	H	1		NE	4	10									11				
	12	29.89	67	29.89	65	75.50				68.67	53.51				H	1	N	1		SH	3	11									12				
	13	29.89	66	29.67	63	78.34				58.57	55.53				S	2	H	1				10	9								13				
	14	29.56	62	29.68	58	76.44				56.55	52.50			0.05	H	1	N	1		10											14				
	15	29.79	54	29.86	62	59.33				50.48	55.53			0.05	H	3	H	2			NE	6	10								15				
	16	29.9	58	29.65	60	60.41				56.55	53.51				SH	2	S	1		10	10	2									16				
	17	29.65	62	29.62	58	61.40				57.56	53.51				H	1	H	1		NH	6	10	4								17				
	18	29.49	57	29.55	60	60.38				59.57	57.55				NH	2	H	1		SE	4	SH	5	6								18			
	19	29.67	58	29.79	58	65.37				50.48	45.43				N	1	NH	2				8										19			
	20	29.75	53	29.66	55	58.53				44.43	45.43			0.05	S	2	N	4		10	10	1										20			
	21	29.68	51	29.85	53	54.34				44.43	40.39			1.15	N	5	N	3		10	10											Rained all day & night	21		
	22	29.94	51	30.	52	46.35				45.43	47.45				N	2	S	2		10	10	2										22			
	23	30.04	49	30.01	53	49.30				45.44	50.47				S	1	S	2		10	10											23			
	24	29.87	52	29.85	50	58.32				43.41	49.47			0.05	S	1	S	2		10	10	3										24			
	25	29.93	51	29.6	54	60.30				41.39	43.41			0.015	S	1	S	5		SH	8	7										Very Stormy Night very rough & windy night	25		
	26	29.27	56	29.18	57	62.35				51.47	47.44				S	1	H	5		NE	3	6										26			
	27	29.37	55	29.71	54	60.40				52.46	51.50				H	4	H	3		NH	7	10	7									27			
	28	29.59	58	29.51	60	58.41				53.51	52.50				H	2	H	4		10	10	9										28			
	29	29.46	58	29.42	57	68.42				51.48	51.50				SH	2	S	2		SE	8	10	10									29			
	30	29.44	55	29.32	58	61.37				49.48	48.46			0.014	S	3	S	1		8	10	4										30			
	31																																31		
Sums.		2059	178	1994	216	65206				46297	10251			2.83		60		61																	
Means.		29.686	55.9	29.665	57.2	62.236				51.549	50.348					2.00		2.03																	
+ Total Corrections for Instrumental Errors.						+8.0																													
+ Corrections for Diurnal Range.																																			
"Corrected Means."																																			
No. of Column.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

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

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

Mean at Station, corrected, and at 32° =

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

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

Highest Reading, corrected for Index error, on the 23 th, = 30.040

Lowest Do. Do., on the 1 th, = 28.210

Difference, or Monthly Range, = 1.830

S.-R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 13 th, = 78.0

Lowest in Month, corrected for Index errors, on the 8 th, = 32.0

Difference, or Monthly Range, = 46.0

"Corrected Mean" of all the Highest, (Col. 5), = 62.2

"Corrected Mean" of all the Lowest, (Col. 6), = 40.9

Difference, or Mean Daily Range, = 21.3

\*\* Calculated Mean Temperature of Month, = 59.6

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), = 50.9

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 49.2

Computed Temperature of Dew-Point, = 47.4

Do. Elastic Force of Vapour, = 32.9

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

Relative Humidity (Saturation 100), = 88

RAIN fell on 10 Days; Amount in Inches, = 2.83

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.
A.M.	4	1				11	3	8	3	2.00
P.M.	6					11	1	11	1	2.03
Mean.	5.0	0				11.2	9	2	0	2.02

4.08

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.

† Entering corrections for both capillary and Index Errors.

‡ The Diurnal Range for Scotland is as yet unknown.

§ Periodically, though not absolutely a sextant 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."

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

Observations made and  
Return verified by

(Signed) Robert Macdonald Glen Tanna







# SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Forest of Glen Tana*, County of *Albion*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *35* miles.  
 Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet. During the MONTH of *October* 189*1*.  
 The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.			SEA.	OZONE.	GENERAL REMARKS.  As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.												
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 A.M.		P.M.		9 h. A.M.																		
		Barometer.	Attached Thermometer.	Barometer.	Attached Thermometer.	Max.	Min.	Max. in Sun/rays.	Min. on Grass.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.		No. of hours in which it fell.	No.	Direction.	Force.	Direction.	Force.	Headings of the H. Cup Anemometer. No.	9 h. A.M.	Velocity (0-6) and Direction.	Amount (0-10), and Species.	Velocity (0-6) and Direction.					Amount (0-10), and Species.	SUNSHINE.  Hours.	No. 3 inches.	No. 12 inches.	No. 22 inches.	Temperature of Water at depth of feet, No.	Temperature of Air, at height of feet, No.	9 A.M.	9 P.M.			
		* No.		No.		No.	No.	No.	No.																																
		inches.	°	inches.	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°	°					°	°	°	°	°	°	°	°	°	°	°	°
	1	29.32	57	29.38	48	56	36			45	57	39	37		N	1	H	1		NH	9	—	8												1						
	2	29.58	46	29.75	52	58	22			35	34	49	47		H	1	H	1		—	—	—	7												2						
	3	29.76	54	29.81	60	60	25			50	47	58	49		SH	3	S	2			10		10	5											3						
	4	29.83	58	29.82	59	59	42			68	57	62	49		S	3	SH	2			10		10	4											4						
	5	29.74	57	29.41	58	60	42			50	47	52	49		H	3	S	4			10		10	3											5						
	6	29.05	57	29.99	56	57	41			50	48	49	47	0.095	S	5	S	3			10		10	—											6						
	7	29.15	44	29.99	54	54	37			46	43	45	43		SE	2	S	2			10	NH	5	2											7						
	8	29.47	52	29.39	58	58	34			42	40	47	45		SH	1	S	4			SE	9	10	5											8						
	9	29.6	56	29.35	55	58	34			53	50	47	45	0.025	S	3	S	2			10		10	5											9						
	10	29.56	52	29.48	58	58	34			45	43	40	39		SH	2	S	1			10	NE	8	6											10						
	11	29.31	54	28.87	55	66	31			47	45	45	43	0.030	S	2	S	5			10		10	1											11						
	12	29.35	57	29.18	58	58	36			44	42	43	41	0.015	S	4	S	2			10	—	4												12						
	13	29.2	57	28.67	54	57	29			42	40	43	41	0.055	NH	1	S	5			NH	9	10	2											13						
	14	28.52	52	28.86	53	57	36			45	43	45	43	0.033	S	4	S	4			SE	7	10	1											14						
	15	29.15	57	29.19	49	51	37			46	44	40	38		S	3	S	2			10		10	3											15						
	16	29.28	49	28.89	55	51	29			42	40	42	40	0.030	SH	2	H	2			10		10	5											16						
	17	29.22	53	29.57	52	53	32			45	43	32	29		N	3	S	2			—		10	6											17						
	18	29.69	48	29.49	57	57	20			29	28	43	41	0.035	H	1	S	2			NH	8	—	4											18						
	19	29.6	49	29.18	50	57	20			40	39	32	30		H	1	H	1			10		10	5											19						
	20	29.21	48	29.18	53	52	19			38	36	49	47		H	1	S	2			10		SE	7											20						
	21	29.2	53	28.98	51	59	28			47	45	37	35	0.035	S	2	S	2			10		10	6											21						
	22	29.96	50	29.05	57	50	31			43	41	35	33	0.05	SH	1	H	1			SE	9	—	5											22						
	23	29.2	58	29.35	47	54	23			36	35	35	33		E	1	H	1			H	10	10	4											23						
	24	29.59	45	29.71	45	54	21			36	35	33	31		H	1	SH	2			NE	8	10	5											24						
	25	29.84	39	29.99	51	50	18			29	27	41	40		H	1	H	1			NE	6	10	6											25						
	26	30.11	49	30.14	52	48	21			41	40	43	41		N	1	H	1			10		10	4											26						
	27	30.21	50	30.21	47	48	26			39	38	37	35		E	1	H	1			H	—	—	5											27						
	28	30.25	45	30.22	43	48	21			34	33	30	29		S	1	H	1			10	—	6												28						
	29	30.34	40	30.40	50	51	16			27	26	35	33		H	1	H	1			—		10	6											29						
	30	30.47	47	30.51	46	50	18			38	37	32	30		H	1	H	1			10	—	6												30						
	31	30.56	44	30.53	53	50	20			28	27	40	37		H	1	H	1			NE	6	10	3											31						
	Sums.	11 12 14	15 16 13	12 12	12	12	56			540	2	45291	358		58		62																								
	Means.	29.537	506	29.541	523	535	283			41.6	397	415	394		109		20																								
	+ Total Corrections for Instrumental Errors.					480																																			
	+ 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 for Temp. (Col. 2), = \_\_\_\_\_  
 "Corrected Mean" of Barometer at 9 P.M., minus the Correction for Temp. (Col. 4), = \_\_\_\_\_  
 Mean at Station, corrected, and at 32', = \_\_\_\_\_  
 Correction for height, feet above Mean Sea-level, = \_\_\_\_\_  
 Mean, reduced to 32', and Sea-level, = \_\_\_\_\_  
 Highest Reading, corrected for Index error, on the 31 th, = *30.560*  
 Lowest Do. Do., on the 14 th, = *28.520*  
 Difference, or Monthly Range, = *2.040*

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 3 th, = *60.0*  
 Lowest in Month, corrected for Index errors, on the 29 th, = *23.0*  
 Difference, or Monthly Range, = *47.0*  
 "Corrected Mean" of all the Highest, (Col. 5), = *53.5*  
 "Corrected Mean" of all the Lowest, (Col. 6), = *36.3*  
 Difference, or Mean Daily Range, = *17.2*  
 \*\* Calculated Mean Temperature of Month, = *44.2*  
 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), = *41.6*  
 Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = *39.5*  
 Computed Temperature of Dew-Point, = *36.9*  
 Do. Elastic Force of Vapour, = *220*  
 Do. Weight of Vapour in a Cubic Foot of Air, = \_\_\_\_\_  
 Relative Humidity (Saturation = 100), = *84*  
 RAIN fell on 10 Days; Amount in Inches, = *3.58*

WIND.		SUMMARY.									
Direction.		N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
A.M.	3		2	1	9	5	10	1			1.09
P.M.					15	3	13				2.00
Mean.	2	0	1	1	12	4	11	0	0		1.54

2.37

(Signed) *Robert Farquharson Glen Tana*

Observations made and  
 Return verified by















## SCOTTISH METEOROLOGICAL SOCIETY.

Observations taken at *Glen Tana Abney*, County of *Aberdeen*, in Lat. \_\_\_\_\_, Long. \_\_\_\_\_, Distance from Sea *35* miles.  
Height of Cistern of the Barometer above Mean Sea-Level \_\_\_\_\_ feet, above Ground \_\_\_\_\_ feet. During the MONTH of *December* 189*1*.

The Hours of Observation are of Greenwich Time.

ELECTRICITY.	Days of Month.	BAROMETER.				SELF-REGISTERING THERMOMETERS. Read Daily, at 9 P.M.				HYGROMETER.				Rain.	WIND.				CLOUDS.				THERMOMETERS under Ground.				SEA.	OZONE.	GENERAL REMARKS.  As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, Remarkable Depression or Elevation of Barometer, Prevalent Diseases, etc.  Mention the hour at which Storms, including Thunder and Lightning, began and ended.	Days of Month.								
		9 h. A.M.		9 h. P.M.		Protected in Shade, 4 feet above Ground.		Exposed Black Bulbs.		9 h. A.M.		9 h. P.M.			9 h. A.M.		9 h. P.M.		9 h. A.M.		9 h. P.M.		9 h. A.M.															
		Barometer.	Attached Ther- mometer	Barometer.	Attached Ther- mometer	Max.	Min.	Max. in Sunrays.	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.	Readings of the H. Cup Anemometer No. —	9 h. A. M.	Velocity (0—6) and Direction.	Amount (0—10), and Species.	Velocity (0—6) and Direction.	Amount (0—10), and Species.					SUNSHINE.  Hours.	No. 8 inches.	No. 12 inches.	No. 22 inches.	Temperature of WELL at depth of feet, No.	Temperature at 1 fathom, and 10 fathoms.	9 A.M.	9 P.M.
		* No.		No.		No.	No.	No.	No.																													
	1	29.4	47	29.11	48	44	24			45	43	41	39	0.025	S	3	S	4			10	10	—											1				
	2	29.23	46	29.29	50	47	22			33	32	45	43		S	1	S	2			10	—	4											2				
	3	28.95	49	29.08	49	44	20			43	40	41	39	0.015	S	4	H	2			10	10	1											3				
	4	29.45	51	29.61	48	54	32			46	44	46	44	0.013	H	3	S	4			NE	6	10	3										4				
	5	29.5	51	29.49	51	50	37			47	45	50	47		S	2	S	2			10	10	2											5				
	6	29.45	49	29.71	45	49	27			37	35	35	33		S	1	SH	2			SH	5	NE	8	5										6			
	7	29.38	43	29.54	44	40	16			27	26	29	27		SE	2	H	1			—	—	3											7				
	8	29.53	43	29.57	46	41	12			49	47	36	34		H	1	H	3			10	10	2											8				
	9	29.5	43	28.68	45	41	21			32	31	37	35	0.025	H	1	H	5			SE	9	10	—											9			
	10	28.56	44	28.65	43	44	21			39	35	36	34	0.015	H	4	H	3			1	—	10	3											10			
	11	29.08	42	29.54	40	40	22			34	33	30	28	0.035	H	3	N	2			10	—	1												11			
	12	29.96	39	29.42	46	36	27			34	33	37	35	0.015	H	2	H	2			E	6	10	—											12			
	13	29.95	44	29.14	45	37	21			33	32	39	37		NE	1	H	2			10	10	1												13			
	14	29.05	44	29.69	41	38	28			37	35	27	25		H	2	H	1			10	—	4												14			
	15	29.180	39	29.38	46	39	14			23	23	39	37	0.017	SE	1	N	2			NE	6	10	2												15		
	16	29.6	44	30.11	40	42	13			38	36	32	29	0.035	NE	3	N	1			10	—	4													16		
	17	30.22	28	30.2	47	39	11			23	22	29	27		SH	1	H	1			E	2	10	4												17		
	18	30.22	45	30.2	46	42	12			40	38	41	39		S	3	S	2			10	10	2													18		
	19	30.19	48	30.21	44	45	32			43	40	37	35		SH	2	SH	2			10	10	2													19		
	20	30.26	42	30.37	44	45	29			40	37	28	27		SE	1	H	1			10	10	4													20		
	21	30.4	41	30.38	35	46	17			27	26	24	22		H	1	H	1			SE	6	—	4													21	
	22	30.38	37	30.27	35	37	11			25	25	23	22		H	1	H	1			—	—	5													22		
	23	30.24	36	30.13	42	51	14			24	23	29	27		H	1	SH	1			—	—	3													23		
	24	30.5	39	29.99	36	42	14			25	25	22	22		SH	1	H	1			—	—	4													24		
	25	29.82	34	29.63	42	36	10			19	18	35	33		H	1	S	2			—	10	2													25		
	26	29.48	44	29.2	49	41	20			39	37	41	40	0.010	S	2	S	2			10	10	2													26		
	27	29.58	47	29.58	50	46	27			37	35	37	35	0.015	SH	1	S	3			—	10	4													27		
	28	29.48	45	29.28	49	42	29			34	33	40	38	0.024	H	1	S	4			10	10	3													28		
	29	29.5	47	29.12	44	35	15			38	35	33	30		H	1	H	1			10	—	3													29		
	30	29.25	45	29.04	46	42	24			37	36	34	33		H	1	H	1			10	—	4													30		
	31	29	40	29.29	44	40	27			33	32	33	31		H	1	S	3			—	10	4													31		
	Sums.	1813	96	1783	140	75	29			141	41	156	97	2.44		53	64																					
	Means.	29.586	43.1	29.567	44.5	42.4	20.1			34.5	32.9	35.0	33.1			1.71	2.08																					
	* Total Corrections for Instrumental Errors.																																					
	+ Corrections for Diurnal Range.																																					
	"Corrected Means."																																					
	No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							

## NOTATION USED IN GENERAL REMARKS.

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

## TABLE FOR ESTIMATING FORCE OF WIND.

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

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

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

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

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

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

Highest Reading, corrected for Index error, on the 21<sup>st</sup>, = 30.400

Lowest Do. Do., on the 10<sup>th</sup>, = 29.560

Difference, or Monthly Range, = 1.840

S.R. THERMOMETER, (in shade, etc.), Highest in Month, (corrected for Index Errors), on the 4<sup>th</sup>, = 54.0

Lowest in Month, corrected for Index errors, on the 25<sup>th</sup>, = 18.0

Difference, or Monthly Range, = 36.0

"Corrected Mean" of all the Highest, (Col. 5), = 42.4

"Corrected Mean" of all the Lowest, (Col. 6), = 28.1

Difference, or Mean Daily Range, = 14.3

\*\* Calculated Mean Temperature of Month, = 35.2

S.R. THERMOMETER, Black Bulb in Sun, Highest, (corrected for Index Errors), on the 11<sup>th</sup>, =

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

Lowest at Night, Black Bulb (corrected for Index errors), on the 11<sup>th</sup>, =

"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), = 34.8

Mean (corrected) A.M. and P.M. Reading of Wet Bulb, (Cols. 10 and 12), = 33.0

Computed Temperature of Dew-Point, = 30.1

Do. Elastic Force of Vapour, = 166

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

Relative Humidity (Saturation = 100), = 82

RAIN fell on 12 Days; Amount in Inches, = 2.44

WIND.		SUMMARY.										
Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.	
A.M.	2			3	7	4	15			1.71		
P.M.	3				10	3	15			2.06		
Mean.	2	1.0		2	8.3	3	15.0	0	0	1.88		

Observations made and  
Return verified by

(Signed) *Robert Warburton Glen Tana*



