

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of January 1892; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked ✱, were made with a Kew Marine; all the 24 h. 0 m. Observations, and those marked ✱, with a Fortin Standard.

Days of Month.	BAROMETER.		SELF-REGISTERING THERMOMETERS.		HYGROMETER.				WIND.				RAIN.		CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.
	Corrected and Reduced to 32° and Sea Level.		In Shade 4 feet above Grass.		Kew No.																
	9 h.	24 h. 0 m.			9 h.		21 h.		9 h.		21 h.		9 h.		21 h.						
	Inches.	Inches.	Max. Kew No.	Min. Kew No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force, 0—6.	Direction.	Force, 0—6.	Amount in inches.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—10), and Direction.	Amount, (0—10), and Species.				
1	29.787	30.058	42.5	36.2	37.2	34.2	36.9	34.0	W	1.5	W	1.5	0.00	2.11W	16u.	0	0	Fine, sunny.	1		
2	29.894	29.731	45.0	35.9	42.9	40.0	42.3	38.0	W	2.5	W	2.5	0.00	3.11W	56u. cur. bi-st.	3	106uf.	Fine, sunny at times; di. sho. at intro. aft. 14h.	2		
3	29.855	29.980	43.2	32.5	34.6	30.9	33.9	30.0	W	2.4	SW	1.5	0.00	0	0	n.d.	5 (frag) St.	Fine, sunny; di. sho. of soft hl. at 24h.	3		
4	30.088	30.017	35.4	30.2	33.9	33.0	31.8	?	W	2.0	SW	2.4	0.00	1.511W: patch bi. cu.	2.11W: patch bi. cu.	n.d.	6 St.	Fine, sunny; thick h. alt. 16h. - So. ha. at 13h.	4		
5	29.419	29.326	45.0	31.1	43.9	42.0	36.9	33.0	W	3.0	W	2.0	0.00	3.5W: Small patches Sc.		0	0	Cloudy, fine.	5		
6	29.119	29.329	37.5	30.0	32.2	31.9	35.9	33.1	W	1.5	W	1.5	0.00	1.511W	26uf.	n.d.	106uf.	Fine, sunny at times; a few slight s. sho.	6		
7	29.288	29.242	36.8	28.2	29.9	27.4	30.4	?	W	1.4	W	2.0	0.08	1W	2 St.	2.11W	106uf.	Fine, mostly cloudy; some low h. - thick s. aft. 19h.	7		
8	29.269	29.476	36.1	28.1	29.1	27.2	34.9	32.2	W	1.4	W	2.4	0.00	0	0		0	Fine, sunny at times; low haze. - So. ha. at 24h.	8		
9	29.559	29.570	34.9	29.1	31.3	28.3	34.4	?	W	2.0	W	1.5	0.00	1.511	4 St.	2.11E: 8 thin cu. St.		Cloudy, fine. - So. ha. at 24h. 15m.	9		
10	29.748	30.045	39.6	29.9	36.9	34.1	36.9	34.7	E	2.4	W	2.4	0.11	2.5E: 1.5 Sc. bi-st.	2.11E: 1.5 Sc. bi-st.	2.11E	76u.	Changeable; hl. s. and d. sho.; sunny intro.	10		
11	30.065	29.890	36.9	30.0	30.9	28.4	35.0	33.1	W	1.5	W	2.0	0.00	0	0	n.d.	10 St. bi.	Fine, sunny; thick low haze.	11		
12	29.875	29.951	35.2	32.0	36.4	34.0	32.0	29.0	W	2.4	W	2.0	0.05	2.4W	106u.	0	0	Cloudy; li. sho. till 8h.; cloudless at 24h.	12		
13	29.748	29.442	37.9	26.7	29.8	28.0	37.9	35.1	SE	0.5	SE	1.5	0.00	1.4W	76uf.	2.5W	956u.	Fine, cloudy; thick low h. during forenoon.	13		
14	29.371	29.374	37.9	32.0	33.9	32.0	34.4	32.3	S	2.0	S	2.0	0.00	2.5SE	2 St. bi.	2.11W	106u. bi.	Fine, sunny; li. s. commencing at 24h.	14		
15	29.486	29.483	36.1	27.2	29.9	28.3	27.2	26.3	SE	0.5	SE	0.5	0.02	1.5E	56uf.	1.5SE	2 thin cu.	Thick h. at times till aft. 10h.; day fine, sunny.	15		
16	29.441	29.577	33.3	26.8	29.1	28.4	33.3	30.2	SE	1.0	SE	2.0	0.00	1.5Ely	1 St.	0	0	Morning, thick h.-fr.; day fine, sunny.	16		
17	29.714	29.756	38.8	32.3	36.9	34.4	38.8	36.3	SE	2.5	E	2.4	0.02	2.5SE	106uf.	2.5Ely	106uf.	Clear; li. sho. of dety. r. at intro. aft. 9h. 10m. with slight S. at 9h. 45m.	17		
18	29.768	29.804	40.0	36.9	38.4	37.1	39.2	38.0	SE	1.5	SE	1.5	0.00	2.5E	106uf.	n.d.	10 Species?	Cloudy; li. sho. between 14h. and 16h.	18		
19	29.882	29.910	40.0	34.4	37.7	37.1	36.4	36.0	SE	1.0	E	1.0	0.39	n.d.	10 W.	n.d.	10 Species?	Overcast; li. to moderate r.; fair at 24h.	19		
20	29.875	29.965	36.8	33.8	33.9	33.5	34.9	34.0	SE	0.5	SE	0.5	0.04	n.d.	10 haze	n.d.	9 St.	Cloudy; thick haze.	20		
21	29.828	29.532	41.0	31.0	35.1	33.8	40.5	38.0	SE	1.0	SE	2.3	0.00	2.5SE	patch Sc.	n.d.	10 Species?	Fine; cloudy after 11h.; di. sho. after 18h.	21		
22	29.677	29.730	41.8	35.9	38.9	36.2	39.9	37.5	SW	1.5	SW	2.0	0.00	n.d.	7 faint St.	n.d.	5 Little (hor.) St.	Cloudy; hazy during day; nearly cloudless at 24h.	22		
23	29.831	29.634	49.0	33.9	34.9	34.1	48.0	45.3	SE	1.0	SW	2.4	0.00	2.11W	16u. St.	n.d.	10 Species?	Morning, thick h.; day mostly cloudy; li. sho. aft. 18h.	23		
24	29.880	30.088	45.0	38.9	40.7	38.0	39.9	37.3	W	2.0	W	2.0	0.01	0	0	n.d.	1 St.	Fine, sunny; passing sh. at 10h.	24		
25	30.304	30.391	43.0	37.7	39.3	37.1	39.9	38.1	W	2.0	W	2.0	0.00	0	0	n.d.	9 St.	Fine, sunny; rather hazy; drizz. sho. about 16h.	25		
26	30.151	30.022	48.8	39.0	44.3	42.0	48.8	47.1	W	2.5	SW	2.0	0.00	3.5W	46u. bi-cu.	n.d.	10 Species?	Fine, mostly cloudy.	26		
27	29.625	29.694	51.2	41.3	50.0	47.9	41.3	38.0	W	2.4	W	2.0	0.09	2.11W	95 Sc. St.	0	0	Cloudy; sho. till 13h. then fine; cloudless at 24h.	27		
28	29.889	29.664	50.1	37.9	41.9	39.3	50.1	47.9	W	2.4	W	2.4	0.01	2.4 W	106uf.	4 W	10 Sc. 6uf.	Cloudy; a few li. sho.; equally after 13h.	28		
29	29.612	29.723	55.0	49.8	52.1	49.9	52.1	49.9	W	3.5	W	3.5	0.06	3.5 W	106uf.	4 W	8-106uf.	Cloudy with short intro. of sunshine; very equally.	29		
30	29.780	29.819	52.8	41.8	45.9	41.2	42.3	39.2	W	3.5	W	3.5	0.04	2 W	26u. St.	0	0	Fine, sunny till abt. 14h.; sho. after 14h. 45m.	30		
31	29.962	29.620	45.2	39.3	39.9	37.3	45.0	43.0	W	2.0	SW	1.5	0.00	0	0	n.d.	5-8 Species?	Fine, sunny; cloudy after 16h.	31		
Sums.	921.790	921.843	12978	10498	11518	10870	12776	10266	59.5	62.6	0.92			142		202					
"Corrected Means."	29.735	29.737	41.9	33.9	37.2	35.1	39.0	36.7	1.9	2.0	0.92			4.6		5.6	6.5				
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				

BAROMETER, "corrected Mean" } = 29.735
at 9 h. }

"Corrected Mean" at 20 h. 45 m. ... = 29.737

Mean, reduced to 32°, and Sea-level, = 29.736

Highest corrected Reading at 20th. 0^{ny}.
 Universal Time, on the 25th.... } = 30.39^{AA}

Lowest corrected Reading at 9h. 0m.
Universal Time, on the 6th } = 29. 119

Difference, or Monthly Range,..... = 1.272

S. - R. THERMOMETERS

(in shade, &c.) } = 55°.0
Highest in Month (corrected for Index
Errors) on the 29th

Lowest in Month, (corrected for Index
Errors), on the 13th ... } = 26° 7

Difference, or Monthly Range,..... = 28.3

"Corrected Mean" of all the Highest,
(Col. 3), } = 41.9

"Corrected Mean" of all the Lowest, { = 33.9
(Col. 4),

Difference, or Mean Daily Range,..... = 8.0

Calculated Mean Temperature of Month, = 37.9

HYGROMETER, "Corrected"

Mean " of 9 h. and 21 h.
Reading of Dry Bulb (Cols.

"Corrected Mean" of 9 h. and 21 h.
Reading of Wet Bulb (Cols.
6 and 8),

Do. Elastic Force of Vapour,...

Relative Humidity (Saturation = 100),

RAIN fell on 12 Days; Amount..... = 0.92 Inch.

WIND.	SUMMARY.										
<i>Direction</i>	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.	Mean Velocity in miles per day.
9 h.	0	1	2	4	2	1	0	1	0		
21 h.	3	1	2	2	4	4	12	0	0		
Mean.	1	1	2	5	3	4	14	1	0	1.95 = 3.80	th.

NOTATION USED IN GENERAL REMARKS.

a.	denotes	aurora.	m.	denotes	meteor.
ci.	"	cirrus.	ms.	"	meteors.
ci.-cu.	"	cirro-cumulus.	r.	"	nimbus.
ci.-st.	"	cirro-stratus.	r.	"	rain.
cu.	"	cumulus.	h. r.	"	heavy rain.
cu.-f.	"	cumulus-form.	c. h. r.	"	continued heavy rain.
cu.-st.	"	cumulo-stratus.	st.	"	stratus.
d.	"	dew.	sc.	"	scud.
f.	"	fog.	sl.	"	sleet.
fr.	"	frost.	s.	"	snow.
h. fr.	"	hoar-frost.	so. ha.	"	solar halo.
h.	"	haze.	sq.	"	squall.
h. d.	"	heavy dew.	sqs.	"	squalls.
hl.	"	hail.	t.	"	thunder.
l.	"	lightning.	t. s.	"	thunder storm.
li. cl.	"	light clouds.	w.	"	wind.
l.	"	light showers.	g.	"	gale of wind.
lu. co.	"	lunar corona.	n. d.	"	not discernible.
lu. ha.	"	lunar halo.			

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the *Night*, and the Lowest Temperatures during the *Day*.

‡‡ These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range

$$= 15.1 \text{ m the } 23^{\circ} \text{ (Signed)}$$

James Boland & George Redpath. M.

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *March* 18*92*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked *X*, were made with a Kew Marine; all the 2*h.* 0 m. Observations, and those marked *X*, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF- REGISTERING THERMO- METERS, In Shade 4 feet above Grass.		HYGROMETER.				WIND.				RAIN.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.
					Kew No.															
	9 h.	2 ^h . 0 m.	Max. Kew No.	Min. Kew No.	9 h.		21 h.		9 h.		21 h.		Amount in inches.	9 h.		21 h.				
	Inches.	Inches.	°	°	Dry bulb. °	Wet bulb. °	Dry bulb. °	Wet bulb. °	Direction	Force, 0—6.	Direction	Force, 0—6.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.				
1	30.172	30.287	39.0	34.9	36.9	34.2	35.3	32.8	E NE	2.0	E	2.0	0.01	1.5 E NE	10 bu.	n. d.	10 St.	Cloudy, with short sunny intervals; a few dr. sho. fl. r. s.	1	
2	30.364	30.428	35.3	33.1	34.1	32.0	33.1	29.2	E	2.5	E	2.0	.00	2.6 NE	10 bu.	n. d.	10 St.	Cloudy; a few light fl. sho.	2	
3	30.437	30.435	35.0	31.1	32.9	32.2	32.7	29.3	E SE	1.4	E	0.5	.00	1.5 E	10 bu.	1 Ely	10 bu.	Cloudy; slight fl. sho. occasionally.	3	
4	30.448	30.434	37.0	30.9	33.9	31.0	33.9	31.9	S	1.0	S	0.5	.00	1.5 SE	8 small cu.	0.5 SEly	9.5 bu.	Fine; mostly cloudy.	4	
5	30.402	30.329	40.0	31.9	34.7	32.0	31.9	30.0	Wly	0.5	Variable	0.25	.00	1.5 E	8 bu.	1.5 E	9.5 small bu.	Fine; mostly sunny.	5	
6	30.245	30.156	40.6	27.3	33.2	31.0	34.9	32.1	W. var.	0.25	SE. var.	0.5	.00	0.5 SE	4 thin bu.	1.5 E	10 bu.	More, thick, with fl. r. s.; day fine, sunny till abt. 12 h.	6	
7	30.050	29.970	37.8	32.1	33.3	31.4	34.9	31.0	S	1.0	SE	1.5	.00	1 W	10 bu.	n. d.	10 St.	Fine, sunny at times till 12 h., then cloudy; so. ha. at noon.	7	
8	29.874	29.668	42.1	31.6	35.1	33.0	34.9	32.9	W	2.0	WSE	2.0	.00	2 W	8 bu.	n. d.	10 St. & 6 bu. st.	Fine, sunny; dr. sho. of s. r. d. abt. 17 h. — So. ha. at 21 h.	8	
9	29.451	29.256	35.0	26.9	29.9	28.8	29.9	27.9	W	1.5	WSE	1.5	.00	2.7 W	4 bu.	n. d.	9 St. & 6 bu. st.	S. sho. early morn.; day fine, sunny, with cloudy; so. ha. at 21 h.	9	
10	29.398	29.686	37.0	26.9	32.1	30.2	34.1	32.0	W	1.5	W	2.0	5.09	2.7 E	7 St. & 6 bu.	2.7 W	10 St. & 6 bu. st.	Thunder; s. sho. till 11 h., then heavy s. sho. till 11 h. 50 m. — Part of	10	
11	29.698	29.750	37.0	30.9	33.1	32.2	32.0	32.0	W	1.0	W. var.	0.25	5.20	1.5 NE	7 bu.	1.5 NE	9 bu.	Clear, 19 h. 20 m.	11	
12	29.649	29.471	37.2	29.9	32.9	30.0	32.2	32.0	W	1.5	W	1.0	5.07	1.5 E	2 St. & 6 bu.	n. d.	10 Species?	E. till abt. 5 h.; day fine, mostly sunny; heavy s. at times	12	
13	29.397	29.379	36.1	31.9	32.6	32.0	32.2	29.3	W	1.5	W	1.5	3.19	2.7 E	7 bu.	1.5 NE	10 bu.	E. sho. p.m. night; day fine, mostly sunny; S. sho. again after	13	
14	29.394	29.501	40.4	29.6	33.1	31.2	31.2	30.0	W	1.5	Calms	0	5.01	1 W	4 thin bu.	0	0	Heavy s. at times till about 11 h., then fine.	14	
15	29.412	29.439	40.0	26.1	31.1	29.4	34.9	33.3	W	1.0	W	1.5	.00	2.7 W	3 bu. st.	n. d.	10 St.	Brisk S. sho. bet. 7 h. & 7 h. 30 m.; day fine, sunny at times.	15	
16	29.784	29.726	43.4	27.1	34.3	32.0	43.2	41.2	SE	0.5	S	1.5	.00	2.7 W	8 thin bu.	2.5 W	2 thin bu.	More, thick, h.; day fine, sunny till abt. 14 h., then cloudy.	16	
17	29.754	29.970	54.3	42.9	50.6	47.3	50.8	47.1	S	2.35	SE	1.5	.00	2.7 W	8 thin bu.	2.5 W	2 thin bu.	Fine, sunny till 12 h., then cloudy; so. ha. at 19 h.	17	
18	30.151	30.221	60.0	46.9	51.8	49.0	51.9	48.8	S	2.15	SE	1.5	.00	2.7 W	7 bu.	0	0	Equally bet. st. & sp.; day fine, sunny at times; a few	18	
19	30.301	30.367	58.2	37.0	48.1	41.2	38.9	37.3	E SE	2.0	E	1.5	.00	0	0	0	0	Fine, sunny; almost cloudless.	19	
20	30.338	30.281	47.5	34.9	42.2	39.0	34.9	33.7	E SE	1.5	E	1.0	.00	2.7 E	7 bu.	0	0	Fine, sunny.	20	
21	30.332	30.432	45.0	31.3	35.5	34.0	40.6	39.0	Wly	1.0	S. var.	0.25	.00	n. d.	10 large.	n. d.	3 faint St.	Cloudy, thick, h.; drizz. sho. bet. 13 h. & 14 h. — So. ha. at 9 h.	21	
22	30.609	30.618	49.3	36.1	42.6	37.3	44.4	39.5	W	2.0	S. var.	0.5	.01	1.5 W	0	n. d.	6 Species?	Fine, sunny.	22	
23	30.529	30.396	56.7	41.5	47.6	44.3	44.9	42.0	W	1.5	W	0.5	.12	0	0	0	0	Overcast, r. till 7 h.; day fine, mostly sunny.	23	
24	30.254	30.118	52.8	38.0	45.6	42.1	42.9	40.2	W	2.0	W	1.5	.00	2 W	7 bu.	0	0	Fine; mostly cloudy till abt. 13 h., then sunny.	24	
25	29.934	29.699	45.0	40.9	44.1	41.0	41.6	38.1	W	2.0	W	2.15	.00	2.7 W	10 bu.	?	10 St.	Cloudy; fine.	25	
26	29.566	29.800	46.0	29.1	45.1	42.1	29.6	29.0	W	1.3	NE	2.25	2.5	2.7 W	10 St. & 6 bu. st.	n. d.	10 W.	Cloudy; r. & dr. bet. 11 h. 40 m. & 12 h., then com. s. till 22 h.	26	
27	29.962	30.047	33.8	27.5	29.6	26.9	30.5	28.2	NE	2.25	S	0.55	.02	0	0	n. d.	10 Species?	Fine, mostly sunny; li. fl. sho. at 15 h. & 16 h. & s. after 20 h.	27	
28	30.009	30.311	39.4	24.1	32.7	29.4	30.4	26.0	W	1.5	NE	2.15	.04	0	0	0	0	Fine, sunny till noon, then cloudy; r. fl. & s. sho. bet. 14 h. & 16 h.	28	
29	30.521	30.565	41.1	24.7	31.1	27.4	36.9	33.2	W	1.5	SE	1.0	.00	0	0	0	0	Fine, sunny; rather hazy.	29	
30	30.578	30.536	51.0	30.9	40.9	37.0	41.9	37.3	W	2.0	W	1.5	.00	0	0	0	0	Fine, sunny. — Part of so. ha. visible at 8 h.	30	
31	30.485	30.455	59.0	36.1	46.3	40.0	49.8	41.0	W	2.5	W	2.4	.00	0	0	0	0	Fine, sunny. — Air very dry at 21 h.	31	
Sums.	931.498	931.731	1352.0	100.4	1164.0	1080.6	1151.3	1039.4	W. 9	1.07	W. 9	1.07			175		194			
"Corrected Means."	30.048	30.056	43.6	32.4	37.6	34.9	37.4	34.6	1.6	1.3	1.3	1.3			5.6		6.3			
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			

BAROMETER, "corrected Mean" = 30.048
at 9 h."Corrected Mean" at 2*h.* 0 m. ... = 30.056

Mean, reduced to 32°, and Sea-level, = 30.052

Highest corrected Reading at *2.20* ... = 30.618
Universal Time, on the *22nd* ...Lowest corrected Reading at *2.20* ... = 29.488
Universal Time, on the *10th* ...

Difference, or Monthly Range, ... = 1.362

S. - R. THERMOMETERS

(in shade, &c.) = 60°.0
Highest in Month (corrected for Index Errors) on the *18th* ...Lowest in Month, (corrected for Index Errors), on the *28th* ... = 24°.1

Difference, or Monthly Range, ... = 35.9

"Corrected Mean" of all the Highest, (Col. 3), ... = 43.6

"Corrected Mean" of all the Lowest, (Col. 4), ... = 32.4

Difference, or Mean Daily Range, ... = 11.2

Calculated Mean Temperature of Month, ... = 38.0

HYGROMETER, "Corrected

Mean" of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), ... = 37°.5

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), ... = 34.79

†† Computed Temperature of Dew-Point, ... = 30.8

†† Do. Elastic Force of Vapour, ... = 173.199

†† Relative Humidity (Saturation = 100), ... = 78

RAIN fell on 11 Days; Amount, ... = 1.07 Inches.

WIND.	SUMMARY.										Mean Force.	Mean Velocity in miles per day.
	N	NE	E	SE	S	SW	W	NW	Calm or Variable.			
9 h.	3	1	5	1	4	0	14	3	0		1.6	
21 h.	3	2	5	1	6	3	7	2	2		4.3	
Mean.	3	2	5	1	5	1	11	2	1		1.45	2.10

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	meteors.
ci. cu.	cirro-cumulus.	n.	nimbus.
ci. st.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu. f.	cumulus-form.	c. h. r.	continued heavy rain.
cu. st.	cumulo-stratus.	st.	stratus.
d.	dew.	sc.	scud.
f.	fog.	sl.	sleet.
fr.	frost.	s.	snow.
h. fr.	hoar-frost.	so. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sgs.	squalls.
hl.	hail.	t.	thunder.
l.	lightning.	t. s.	thunder storm.
li. cl.	light clouds.	w.	wind.
li. sh.	light showers.	g.	gale of wind.
lu. co.	lunar corona.	n. d.	not discernible.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

†† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range = 22.9 on the 31st

(Signed)

James Polans & George Redpath. 77

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N, Long. 3° 10' W, during the MONTH of *April* 18*92*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked *X*, were made with a Kew Marine; all the 24 h. *0* m. Observations, and those marked *X*, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF- REGISTERING THERMO- METERS, In Shade 4 feet above Grass.		HYGROMETER.				WIND.				RAIN.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.	
	9 h.	24 h. 0 m.	Max. Kew No.	Min. Kew No.	9 h.		21 h.		9 h.		21 h.			Amount in inches.	9 h.		21 h.				
					Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction	Force, 0-6.	Direction	Force, 0-6.			Velocity (0-6), and Direction.	Amount, (0-10), and Species.	Velocity (0-6), and Direction.				Amount, (0-10), and Species.
1	30.453	30.435	63.8	44.8	53.2	43.4	51.1	42.3	W	2.5	W	0.5	0.00	0.25 Wly	46 inus.	0	0	Fine, sunny. - So. ha. visible at times during day.	1		
2	30.409	30.343	66.9	35.9	51.2	44.0	53.9	44.0	NE	0.5	W	0.5	0.00	0	0	0	0	Fine, sunny; hazy. - So. ha. at 13h.	2		
3	30.272	30.109	57.8	38.7	50.8	44.0	40.9	40.0	calm	0	E	1.0	0.00	0.5 Wly	760 cu.	10.0	0	Morning, thick h.; day fine, sunny.	3		
4	29.910	29.864	62.4	37.1	44.3	42.0	49.8	45.7	E	0.5	SW	2.0	0.00	0	0	0	0	Fine; mostly sunny; rather hazy.	4		
5	29.922	29.982	58.3	42.0	47.1	45.3	50.8	48.1	Ely	0.5	W	0.5	0.00	2.5 Wly	10 Strati-form.	0.5 Wly	9 thin bu.	Cloudy; slight sun at times; a few very dis. shs.	5		
6	30.037	30.083	58.8	41.9	46.1	45.2	41.9	41.5	E	1.5	NE	W 1.5	0.00	?	10, Species?	n.d.	10 St.	Cloudy; fine.	6		
7	30.107	30.140	44.0	40.8	41.3	41.0	40.8	40.0	ENE	2.0	E	1.5	0.00	?	10, Species?	n.d.	10 St.	Cloudy; fog at times.	7		
8	30.178	30.174	43.0	38.9	39.7	39.2	40.9	40.1	ENE	2.0	Ely	0.25	0.00	?	10, Species?	0.5 E	7 bi. cul.	Cloudy; overhangh. at times; clear at 2h.	8		
9	30.203	30.165	45.5	35.9	42.0	39.9	40.7	39.0	ENE	2.0	ENE	2.0	0.00	2.4 E	10 bu.	2.5 E	3-7 thin bu.	Fine; cloudy till 10h., then sunny.	9		
10	30.140	30.069	46.2	36.1	41.4	39.2	40.9	40.3	SE	1.0	NE	1.0	0.00	2 E	9 bu.	2 NE	5 Scud.	Fine; mostly cloudy; day clear, sunny.	10		
11	30.043	30.087	47.7	35.7	36.7	36.0	39.9	38.9	Ely	0.25	E	1.5	0.00	?	10, Species?	2.4 ENE	10 bu.	Fine; sunny after 9h. 45 m.	11		
12	30.057	29.904	42.5	32.9	38.9	37.3	33.8	33.0	E	2.4	E	1.5	0.02	2.4 E	10 bu.	?	10, Species?	Cloudy; v. sl. and snow shs. after 2 h.	12		
13	29.823	29.771	44.0	31.1	38.9	34.0	32.9	32.1	N	1.5	NE	0.25	0.13	0	0	?	1 Strati-form.	Cloudy; v. sl. and snow shs. after 2 h.	13		
14	29.743	29.747	42.7	29.9	36.4	32.6	34.9	32.4	WNE	1.0	N	0.5	0.03	0	0	?	?	Fine, sunny; very clear.	14		
15	29.756	29.748	44.2	27.0	36.9	32.8	32.7	31.0	Nly	0.25	Variable	0.5	0.00	0	0	n.d.	7 faint (prot.) St.	Morning, thick h.; with changing h.; day clear, sunny; evening	15		
16	29.692	29.745	39.2	29.9	37.0	34.8	36.3	32.7	NE	2.0	NE	1.0	0.00	2 E	4 bu. & 1 Scud.	?	3 bu.	Fine, sunny at times; S. shs. between 12h. & 13h.	16		
17	29.793	29.906	46.5	28.7	39.9	33.9	36.9	34.2	NW	1.0	calm	0	0.01	1 N	11 bu. & 1 bu.	n.d.	10, Species?	Morning, thick h.; day mostly sunny; S. shs. between 12h. & 13h.	17		
18	30.021	30.212	46.7	30.0	38.9	35.2	35.9	33.1	WNE	1.5	Ely	0.25	0.13	1.5 Wly	1 bu.	0	0	Changeable; fine, mostly sunny till 11h.; h. S. sh. v. sh. shs.	18		
19	30.308	30.204	54.7	31.1	43.1	38.1	44.3	38.2	ENE	1.4	SW	2.0	0.00	2 Wly	4 bu.	n.d.	10 Strati-form.	Fine, sunny; evening cloudy.	19		
20	30.131	29.877	61.1	41.9	51.9	46.4	50.6	46.9	WNE	1.4	S	1.5	0.01	2 W	4 bu.	n.d.	10 Strati-form.	Fine; sunny at times. - So. ha. at 17h.	20		
21	29.950	29.909	56.9	44.9	51.0	46.0	55.8	51.9	W	2.5	W	2.5	0.00	1.5 W	10 bu. & 1 bu.	?	10 (prot.) St.	Fine, cloudy; a few short mts. of sunshine.	21		
22	30.024	30.185	58.2	45.9	53.3	47.0	45.9	42.1	W	3.0	W	2.5	0.01	2.4 W	2 bu.	2.4 W	1 St.	Fine; mostly sunny; equally at times.	22		
23	30.205	30.173	56.0	43.7	50.8	44.2	45.1	41.8	W	2.5	W	2.5	0.00	3 W	2 bu.	0	0	Fine, sunny.	23		
24	30.216	29.996	55.9	40.8	48.6	42.5	45.9	42.0	W	2.5	W	2.0	0.00	2 W	6 bu.	n.d.	10 bi. of.	Fine; mostly sunny; evening cloudy.	24		
25	29.823	29.825	55.0	39.2	47.5	41.1	41.0	40.1	Wly	2.0	SE	0.25	0.17	2.7 Wly	2 Strati-form.	1 Wly	10, Species?	Fine; sunny at times till noon; v. sh. at mts. afternoon, and	25		
26	29.871	29.835	51.6	38.0	43.8	37.1	40.9	37.1	NW	1.5	SE	0.5	0.07	1.5 Wly	9 bu.	?	6 faint St. - cirrus.	Fine; cloudy, with short mts. of sunshine.	26		
27	29.472	29.536	49.7	37.8	40.1	38.7	39.7	38.8	SE	2.0	NE	1.5	0.38	2 W	9 bu.	3.5 E	10 E	Cloudy; changeable; thick h. at 10h. 11h. 12h. 13h. 14h. 15h. 16h. 17h. 18h. 19h. 20h. 21h. 22h. 23h. 24h.	27		
28	29.919	29.942	45.0	36.5	41.1	36.2	39.9	35.0	N	1.5	NE	1.5	0.14	1.4 NE	8 bu.	1.5 NE	10 St.	Fine; sunny at times; few shs. at 13h. 14h. and 16h. 30m.	28		
29	30.024	30.028	51.6	34.9	42.2	37.1	44.9	39.2	NE	1.4	W	2.0	0.00	1.5 N	8 thin bu.	1.5 Wly	3 St.	Fine, clear, sunny.	29		
30	30.049	30.069	52.5	38.9	46.4	42.2	46.2	43.0	W	2.0	W	2.0	0.00	2.4 W	3 bu.	1.5 Wly	3 high St.	Fine; sunny at times; passing sh. at 17h. - So. ha.	30		
Sums.	900.551	900.063	1540.4	1110.9	1320.5	1196.4	1275.2	1184.5		45.5		39.5	1.074		182		171				
"Corrected Means."	30.018	30.002	51.3	37.0	44.0	39.9	42.5	39.5		1.5		1.3	1.074		6.1		5.7				
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				

BAROMETER, "corrected Mean" = 30.018
 at 9 h.
 "Corrected Mean" at 24 h. 0 m. ... = 30.002
 Mean, reduced to 32°, and Sea-level, = 30.016
 Highest corrected Reading at ... = 30.453
 Universal Time, on the ...
 Lowest corrected Reading at ... = 29.472
 Universal Time, on the ...
 Difference, or Monthly Range, ... = 0.981

S. - R. THERMOMETERS
 (in shade, &c.) = 66° 9
 Highest in Month (corrected for Index Errors) on the 2nd ...
 Lowest in Month, (corrected for Index Errors), on the 15th ... = 27° 0
 Difference, or Monthly Range, ... = 39° 9
 "Corrected Mean" of all the Highest, (Col. 3), ... = 51.344
 "Corrected Mean" of all the Lowest, (Col. 4), ... = 37.0
 Difference, or Mean Daily Range, ... = 14.344
 Calculated Mean Temperature of Month, = 44.244

HYGROMETER, "Corrected Mean" of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), ... = 43° 2
 "Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), ... = 39.7
 # Computed Temperature of Dew-Point, ... = 35.5
 # Do. Elastic Force of Vapour, ... = 2.08
 # Relative Humidity (Saturation = 100), ... = 75
 RAIN fell on 11 Days; Amount, ... = 1.074 Inches.
 WIND. SUMMARY.
 Direction N NE E SE S SW W NW
 9 h. 5 1 2 2 0 10 2 1
 21 h. 4 3 8 1 12 9 0 2
 Mean. 5 2 2 2 0 10 1 1
 Mean Force. 1.4 = 1.96

NOTATION USED IN GENERAL REMARKS.
 a. denotes aurora.
 ci. cirrus.
 ci. cu. cirro-cumulus.
 ci. st. cirro-stratus.
 cu. cumulus.
 cu. f. cumulo-form.
 cu. st. cumulo-stratus.
 d. dew.
 f. fog.
 fr. frost.
 h. fr. hoar-frost.
 h. haze.
 h. d. heavy dew.
 li. hail.
 l. lightning.
 li. cl. light clouds.
 li. sh. light showers.
 lu. co. lunar corona.
 lu. ha. lunar halo.
 m. denotes meteor.
 ms. meteors.
 n. nimbus.
 r. rain.
 h. r. heavy rain.
 c. h. r. continued heavy rain.
 st. stratus.
 sc. acid.
 sl. sleet.
 s. snow.
 so. ha. solar halo.
 sq. squall.
 sgs. squalls.
 t. thunder.
 t. s. thunder storm.
 w. wind.
 g. gale of wind.
 n. d. not discernible.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.
 † These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.
 Observations made and Return verified by
 Greatest Daily Range = 31.0
 (Signed) James Bolam George Redpath.

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *May* 18*92*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked *X*, were made with a Kew Marine; all the 2 h. 0 m. Observations, and those marked *X*, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF-REGISTERING THERMOMETERS, In Shade 4 feet above Grass.		HYGROMETER. Kew No.				WIND.				RAIN.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.	
	9 h.		2 1/2 h. 0 m.		9 h.		21 h.		9 h.		21 h.			9 h.		21 h.					
	Inches.	Inches.	Max. Kew No.	Min. Kew No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force, 0—6.	Direction.	Force, 0—6.		Amount in inches.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—6), and Direction.				Amount, (0—10), and Species.
1 *	29.952	29.881	60.0	36.9	50.8	45.7	45.5	41.1	W	1.5	W	0.25	0.00	1.55 W	26 i-cu.	0	0	Fine, sunny.	1		
2	29.987	30.094	52.9	35.5	50.6	45.0	43.9	42.3	SE	0.25	NE	2.5	0.00	0.55 Ely: 4 Drng. bi-st.	0	3.7 E	10 Cu.	Fine, sunny; evening cloudy.	2		
3	30.055	30.045	48.8	40.5	45.5	40.2	43.3	38.8	NE	3.1A	NE	3.1A	0.00	1.76 W: 3 Drng. bi-st.	3.7 E	3.7 E	7 Cu.	Fine, sunny; equally. - Part of so. ha. visible at times.	3		
4	30.076	30.097	47.9	40.9	42.9	38.5	41.1	38.8	E	1.5	SE	1.0	0.00	2 E	10 Cu.	?	2 fair cu.	Fine; mostly cloudy till noon, then sunny.	4		
5	30.071	30.178	52.4	39.9	48.8	44.0	41.9	38.2	W	1.0	NE	2.0	0.00	2.7 E	10 Cu.	0	0	Fine; mostly sunny; very clear.	5		
6	30.261	30.146	55.9	38.0	45.2	38.2	47.3	41.0	NE	1 1/4	W	2.0	0.00	0	0	0	0	Fine, clear, sunny.	6		
7	29.987	30.030	55.5	41.5	49.9	44.0	43.9	43.0	W by N	2.5	E	2.0	0.00	3.1 W by N	9 Cu.	1.5 W by N	10 Cu.	Fine, sunny till abt. 10 h., & aft. 15 h.; li. sho. aft. 20 h.	7		
8 *	30.072	30.094	54.2	41.9	47.2	44.0	50.0	45.0	NE	1.0	W	1.5	0.01	1.5 W	10 thin Cu.	1.5 W	10 St.	Fine; sunny at times.	8		
9	30.151	30.173	61.8	45.4	52.3	47.2	48.7	46.1	N	1.0	Calu	0	0.00	2 1/4 W by S	10 thin Cu.	0	0	Fine; cloudy, with short inters. of sunshine.	9		
10	30.261	30.366	67.2	41.5	52.0	48.4	45.9	42.0	NE	1.0	SE	1.0	0.00	0	0	0	0	Fine, sunny; nearly cloudless.	10		
11	30.475	30.472	51.0	39.0	49.4	45.2	44.9	43.1	NE	2.5	NE	2.0	0.00	2.5 E	1 Cu.	?	2 Drng. bi-st.	Fine, sunny. - So. ha. visible at times.	11		
12	30.478	30.287	52.4	38.5	45.5	42.9	49.6	47.3	NE	2.0	Calu	0	0.00	2 1/4 NE	3-8 large Cu.	?	10 Stratiform.	Fine, sunny till abt. 15 h. - So. ha. visible at times.	12		
13	30.124	29.964	59.0	48.8	52.8	51.5	56.6	55.8	NE	0.25	W	0.5	0.35	2 1/4 SW	10 W.	2 W by S	10, Species?	Cloud; cond. v. bet. 4 h. & 11 h., & sho. at times aft. 15 h.	13		
14 *	29.826	29.869	59.3	50.8	56.8	50.9	50.8	47.2	W	2.5	W	1.5	0.03	2.5 W	3 Cu.	2 W	2 Cu.	Fine; mostly sunny; li. sho. abt. 15 h.	14		
15 *	29.594	29.570	60.0	47.8	55.7	50.7	49.0	44.8	W	3.0	W	0.25	0.00	2.5 W	8 thin Cu.	0	0	Fine, sunny.	15		
16	29.328	29.528	55.5	45.8	48.8	46.1	49.8	46.0	W	2.0	W	0.5	1.5	1.5 W	36 i-cu.	1.1 W	8 thin Cu.	Cloudy, with short sunny inters.; frequent sho. [16 h. end after 20 h.]	16		
17	29.865	30.005	54.3	44.2	49.8	44.5	44.7	44.2	NE	0.25	E	0.5	0.02	1.5 W	9 Cu.	1.1 W	10 Cu.	Fine, cloudy; short sunny inters. aftern., fine sho. abt. [16 h. end after 20 h.]	17		
18	29.877	29.767	57.0	40.9	47.2	46.1	46.9	43.3	SE	1 1/4	W	2.0	1.8	2.5 SW	10 W.	2 W	8 showering Cu.	Cloud; cond. v. bet. 8 h. & 13 h.; sunny inters. aft. 14 h.	18		
19	29.811	29.746	58.3	44.1	51.8	45.2	50.1	48.9	W	2.4	SW	0.2	0.03	2.5 W by N	4 Cu.	2.5 SW	10, Species?	Fine, sunny till abt. 15 h., then cloudy; sho. aft. 19 1/4 h.	19		
20	29.564	29.957	57.5	43.9	53.6	48.8	43.9	40.3	W	2.0	NE	1.0	4.4	2 1/4 W	10 Cu.	1.5 W	8 thin Cu.	Cloudy; brist. sho. early morn.; freq. heavy sho. aft. 11 1/2 h.; [Fine after 19 h.]	20		
21	29.905	29.840	55.0	38.1	47.9	43.0	42.9	39.0	W	1.0	W	1.5	0.02	2 W	10 Cu.	0	0	Cloudy; sunny at times; passing sho.	21		
22 *	29.975	29.893	49.2	40.1	46.9	42.0	43.1	42.0	E	0.5	SE	1.0	0.08	1.5 E	(3) Cu.	2 1/4 SE	5 Cu.	Cloudy; very clear; cond. v. after 19 h.	22		
23	29.714	29.679	56.1	42.5	52.0	51.0	53.8	52.5	W	1.5	S	1.5	0.79	1 1/2 SW by W	10 high Cu.	2.5 SW	10, Species?	Cloud; v. till 6 h., and again aft. 12 h.; fair at [16 h. end after 20 h.]	23		
24	29.635	29.756	65.0	52.9	58.5	53.1	56.6	51.7	SW	2.0	Sly	0.5	0.02	2.5 W	10 Cu.	?	0	Fine; mostly sunny; brist. sho. at 6 h., li. sho. [16 h. end after 20 h.]	24		
25	29.684	29.688	64.0	48.8	51.7	50.9	57.3	53.2	SE	1.0	SW	2.0	4.1	2.5	10 Cu.	2.5 W	7 thin Cu.	Cloudy; freq. sho. till noon, & very heavy v. bet. 12 h. & 5 p.m. [16 h. end after 20 h.]	25		
26	29.808	29.792	62.0	47.9	57.2	53.8	52.2	51.9	Variable	1.0	SE	0.25	1.0	2.5 W by N	1 Cu.	0.5 S	10 W.	Fine; mostly sunny till 15 h., then cloudy; brist. v. [16 h. end after 20 h.]	26		
27	29.730	29.869	68.9	48.8	54.5	54.2	59.6	55.1	W	0.25	W	0.25	3.2	1.5 SW	9 small Cu.	2.5	4 small thin Cu.	Br. dur. prev. night, & till aftern.; day fine, sunny at times.	27		
28	29.918	29.672	60.4	47.8	50.7	49.5	48.9	48.9	NE	1.0	NE	0.1	0.01	1 E	10 thin Cu.	n.d.	10 Stage.	Cloudy, li. sho. at times aft. 13 h.; thick overhanging [16 h. end after 20 h.]	28		
29 *	29.658	29.701	64.0	47.1	50.9	55.8	51.9	5W	2.5	SW	2.1A	0.00	2 1/2 SW	5 Cu.	2.5 W	2 thin Cu.	Fine; sunny at times; li. sho. at 18 h. 40 m.	29			
30	29.812	29.885	68.8	52.7	58.9	55.0	58.7	54.2	W	2.0	SW	0.00	0.00	1.5 SW	10 Cu.	2.5 W	6 Cu. - 10 W.	Fine; mostly sunny during afternoon.	30		
31	29.783	29.650	73.2	51.9	64.7	58.8	58.7	56.7	S var.	1.0	SE	0.5	0.06	1.5 SW	8 Cu.	1.5	10 W.	Sho. bet. 6 h. & 11 h.; day, fine, sunny; evening cloudy, with [16 h. end after 20 h.]	31		
Sums.	927.437	927.674	1807.5	1364.4	1595.7	1469.3	1525.4	1434.3		46.6		43.5	3.02		232		165				
Corrected Means.	29.917	29.926	58.3	44.0	51.5	47.4	49.2	46.3		1.5		1.4	3.02		7.5		5.3				
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				

BAROMETER, "corrected Mean"

at 9 h. = 29.917

"Corrected Mean" at 2 h. 0 m. ... = 29.926

Mean, reduced to 32°, and Sea-level, = 29.921

Highest corrected Reading at 8 h. ... = 30.478

Lowest corrected Reading at 1.5 h. ... = 29.287

Difference, or Monthly Range, = 1.150

S. - R. THERMOMETERS

(in shade, &c.)
Highest in Month (corrected for Index Errors) on the 31st. = 73.2

Lowest in Month, (corrected for Index Errors), on the 2nd. = 35.5

Difference, or Monthly Range, = 37.7

"Corrected Mean" of all the Highest, (Col. 3), = 58.3

"Corrected Mean" of all the Lowest, (Col. 4), = 44.0

Difference, or Mean Daily Range, = 14.3

Calculated Mean Temperature of Month, = 51.1

HYGROMETER, "Corrected"

Mean "of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), = 50.3

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), = 46.8

†† Computed Temperature of Dew-Point, = 43.1

†† Do. Elastic Force of Vapour, = 278.321

†† Relative Humidity (Saturation = 100), = 77

RAIN fell on 17 Days; Amount, = 3.02 Inches.

WIND.	SUMMARY.									
	Direction.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.
9 h.		2	4	5	3	1	2	10	2	1
21 h.		0	4	6	2	4	3	9	1	2
Mean.		1	5	5	3	2	3	9	2	1

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	meteors.
ci-cu.	cirro-cumulus.	n.	nimbus.
ci-st.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-f.	cumulo-fortis.	sc. h. r.	continued heavy rain.
cu-st.	cumulo-stratus.	st.	stratus.
d.	dew.	sc.	scud.
f.	fog.	sl.	sleet.
fr.	frost.	s.	snow.
h-fr.	hoar-frost.	so. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sq.	squalls.
ld.	light.	t.	thunder.
l.	lightning.	t. s.	thunder storm.
li. cl.	light clouds.	w.	wind.
li. sh.	light showers.	g.	gale of wind.
lu. co.	lunar corona.	n. d.	not discernible.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

†† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range
= 25.7 within 10 h.

(Signed)

James Bolam & George Redpath.

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *June* 18*92*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked *X*, were made with a Kew Marine; all the 20 h. 45 m. Observations, and those marked *X*, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF- REGISTERING THERMO- METERS, In Shade 4 feet above Grass.		HYGROMETER. Kew No.				WIND.				RAIN. Amount in inches.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.						
	9 h.	24 h. 0 m.	Max. Kew No.	Min. Kew No.	9 h.		21 h.		9 h.	21 h.	9 h.	21 h.		9 h.	21 h.											
					Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.								Direction.	Force, 0—6.				Direction.	Force, 0—6.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.
1	29.551	29.660	64.4	52.9	61.0	54.4	53.7	49.9	SW	2.5	SW	2.0	0.18	15 W: 16 u. - 6 u. } 25 W: 36 u. }	0	0	Heavy sho. fr. night; day fine, mostly sunny. [sho. bet. 19h. & 20h.	1								
2	29.429	29.475	60.7	45.8	49.8	48.9	48.3	45.0	E	2.5	W	2.0	0.17	2 E 10 W. 24 W. 26 u. } 15 W: 9 u. - 6 u. }	0	0	Clear, fr. h. v. bet. 6h. & 11h.; sunny m. bet. 11h. & 2h. [equally after 11h.]	2								
3	29.569	29.760	57.3	46.1	50.0	45.8	50.6	47.0	W	2.5	W	2.0	0.03	2 W 9 S u. } 15 W: 10 u. - 6 u. }	0	0	Fine; mostly sunny; a few passing sho.	3								
4	29.844	29.716	61.8	46.2	55.4	48.9	50.3	48.9	W	2.5	SE	0.25	0.08	14 W. 16 u. } 25 W: (1) S u. }	0	0	Cloudy; li. to mod. v. after 16h.	4								
5	29.608	29.928	57.2	49.5	50.6	50.0	51.4	50.4	W	0.25	E	0.5	0.25	15 W: 10 u. - 6 u. } 15 W: 10 u. - 6 u. }	0	0	Cloudy; v. till about 10h., then fine.	5								
6	30.148	30.273	67.1	48.0	56.0	52.0	59.7	56.2	W	1.5	W	2.0	0.00	2 W 10 u. - 6 u. } 15 W: 10 u. - 6 u. }	0	0	Fine; mostly sunny.	6								
7	30.344	30.365	72.2	55.0	66.7	60.1	64.7	60.7	W	1.0	W	0.25	0.00	2 W 2 u. } 0	0	0	Fine, sunny.	7								
8	30.372	30.321	75.3	54.1	65.5	60.9	67.5	62.9	Variable	0.25	W	0.25	0.00	0	0	0	0	Fine, sunny; rather hazy.	8							
9	30.268	30.098	81.7	55.1	69.9	60.9	69.2	62.9	W	1.5	W	1.5	0.00	0	0	0	0	Fine, sunny; nearly cloudless.	9							
10	30.102	29.973	69.2	46.9	49.3	47.7	46.9	46.0	E	2.5	E	2.5	0.03	2 E 10 u. - 6 u. } 25 E: 10 W.	0	0	Cloudy; const. v. after 20h.	10								
11	29.894	29.931	49.0	43.9	45.9	44.2	45.9	43.4	E	2.5	SE	0.25	0.52	2 E 10 u. - 6 u. } 15 W: 8 u. - 6 u. }	0	0	Cloudy; v. chiefly till 16h., then fine.	11								
12	29.857	30.041	55.5	43.1	52.6	48.1	44.9	42.0	W	2.0	W	1.5	0.24	2 W 10 u. - 6 u. } 15 W: 2 u. - 6 u. }	0	0	Changeable, sunny at times; fr. h. v. sho. aft. 13h.	12								
13	30.161	30.219	56.0	40.9	47.3	41.9	47.8	45.0	W	1.5	E	1.5	0.00	2 W 10 u. - 6 u. } 15 W: 10 u. - 6 u. }	0	0	Fine; mostly cloudy; sho. at 2h.	13								
14	30.247	30.118	63.0	40.0	52.0	45.0	54.1	48.9	W	1.0	Variable	0.25	0.07	15 W: 10 u. - 6 u. } 2 W: 10 u. - 6 u. }	0	0	Fine, sunny; evening cloudy.	14								
15	30.031	29.857	66.1	48.8	57.6	49.9	52.6	50.9	W	1.0	W	2.0	0.10	2 W 10 u. - 6 u. } 25 W: 1 (6 u.) S u. }	0	0	Fine, sunny till abt. 14h., then cloudy; showers between 15	15								
16	29.898	29.872	56.1	45.0	51.0	46.2	48.8	45.3	E	1.5	W	0.25	0.07	2 W 10 u. - 6 u. } 15 W: 9 u. - 6 u. }	0	0	Fine; sunny at times.	16								
17	29.858	29.990	54.0	41.0	49.6	45.0	46.9	44.3	W	1.5	W	0.5	0.05	15 W: 10 u. - 6 u. } 2 W: 10 u. - 6 u. }	0	0	Cloudy, with sunny m. for sun; v. sho. bet. 10h. & 11h. & 12h.	17								
18	29.915	29.893	55.3	44.9	49.8	46.4	48.6	46.9	W	2.0	W	1.5	0.29	15 W: 10 u. - 6 u. } 15 W: 10 u. - 6 u. }	0	0	Cloudy; frequent heavy sho.	18								
19	29.840	29.731	59.8	45.1	53.8	48.1	49.3	45.9	W	2.0	Variable	0.25	0.24	15 W: 10 u. - 6 u. } 15 W: 10 u. - 6 u. }	0	0	Fine, mostly sunny till 14h.; 0 cast, const. v. aft. 16h.	19								
20	29.744	29.822	55.0	45.0	47.0	46.0	48.8	46.9	E	1.5	E	1.5	0.24	2 E 10 u. - 6 u. } 15 W: 2 u. - 6 u. }	0	0	Frequent sho. (heavy at times) till 10h., then fine.	20								
21	29.891	29.884	61.5	45.3	56.3	50.3	54.3	50.2	E	1.5	SE	1.5	0.00	0	0	15 S W: (6 u.) S u.	Fine, sunny.	21								
22	29.835	29.792	61.4	49.5	53.2	51.4	50.9	49.9	Variable	0.25	W	0.25	0.06	15 W: 10 u. - 6 u. } n. d.	0	0	Cloudy, with sunny m. bet. 10h. & 16h.	22								
23	29.678	29.780	61.1	49.8	53.6	51.1	51.0	49.1	W	0.5	SE	0.25	0.07	15 W: 10 u. - 6 u. } 2 W: 2 u. - 6 u. }	0	0	Fine; sunny at times; sho. bet. 19h. & 20h.	23								
24	29.872	29.929	58.0	47.9	56.5	52.9	52.8	50.9	E	1.5	E	1.5	0.00	1 W 10 u. - 6 u. } 1 W 9 u. - 6 u. }	0	0	Fine; cloudy, with sunny m. bet. 10h. & 20h.	24								
25	29.859	29.647	61.2	49.8	54.3	51.9	56.8	55.1	SE	1.5	W	1.5	0.26	25 SE 10 u. - 6 u. } 24 W: 10 u. - 6 u. }	0	0	Cloudy; li. to mod. v. aft. 11h.; break bet. 16h. & 17h.	25								
26	29.757	29.707	70.5	55.8	56.8	54.2	66.7	62.9	SW	2.5	SW	2.5	0.07	2 W 10 u. - 6 u. } 24 W: 10 u. - 6 u. }	0	0	Mostly cloudy; sho. bet. 8h. & 5 m. & 10h.	26								
27	29.789	29.944	66.7	54.0	61.2	54.2	56.0	51.9	W	2.5	W	2.5	0.10	2 W 10 u. - 6 u. } 25 W: 16 u. - 6 u. }	0	0	Fine, sunny.	27								
28	30.156	30.137	67.4	49.8	60.7	54.4	56.5	51.9	W	1.0	S	0.5	0.00	1 W 10 u. - 6 u. } 15 W: 2 u. - 6 u. }	0	0	Fine; mostly sunny; w. cloudy. - 13h. - 14h. - 15h. - 16h. - 17h. - 18h. - 19h. - 20h. - 21h. - 22h. - 23h. - 24h. - 25h. - 26h. - 27h. - 28h. - 29h. - 30h.	28								
29	30.116	30.168	64.0	50.9	57.2	53.5	54.3	51.8	E	2.0	W	0.25	0.00	15 W: 10 u. - 6 u. } 1 W: 10 u. - 6 u. }	0	0	Fine, sunny. - 13h. - 14h. - 15h. - 16h. - 17h. - 18h. - 19h. - 20h. - 21h. - 22h. - 23h. - 24h. - 25h. - 26h. - 27h. - 28h. - 29h. - 30h.	29								
30	30.164	30.107	67.1	47.9	58.5	52.0	56.4	52.9	W	2.0	W	1.5	0.00	2 W 10 u. - 6 u. } 2 W 4 u. - 6 u. }	0	0	Fine; sunny till about 14h., then cloudy. - 13h. - 14h. - 15h. - 16h. - 17h. - 18h. - 19h. - 20h. - 21h. - 22h. - 23h. - 24h. - 25h. - 26h. - 27h. - 28h. - 29h. - 30h.	30								
Sums.	892.787	898.132	1875.6	1438.0	1649.1	1516.3	1608.7	1519.0		165		35	2.94		12		17									
"Corrected Means."	29.926	29.938	62.5	47.9	55.0	50.6	53.5	50.6		1.5		1.2	2.94		7.1		5.7									
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17									

BAROMETER, "corrected Mean" at 9 h. = 29.926

"Corrected Mean" at 20 h. 45 m. = 29.938

70 29.955

Mean, reduced to 32°, and Sea-level, = 29.932

Highest corrected Reading at 2h. = 30.372

Universal Time, on the 8th.

Lowest corrected Reading at 12h. = 29.429

Universal Time, on the 2nd. = 29.262

Difference, or Monthly Range, = 0.943

S. - R. THERMOMETERS (in shade, &c.)

Highest in Month (corrected for Index Errors) on the 8th. = 81° 7

Lowest in Month, (corrected for Index Errors), on the 14th. = 40° 0

Difference, or Monthly Range, = 41° 7

"Corrected Mean" of all the Highest, (Col. 3), = 62° 5

"Corrected Mean" of all the Lowest, (Col. 4), = 47° 9

Difference, or Mean Daily Range, = 14° 6

Calculated Mean Temperature of Month, = 55° 2

HYGROMETER, "Corrected Mean" of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), = 54° 2

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), = 50° 6

† Computed Temperature of Dew-Point, = 47° 1

† Do. Elastic Force of Vapour, = 0.324 3-66

† Relative Humidity (Saturation = 100), = 77

RAIN fell on 20 Days; Amount, = 2.94 Inches.

WIND.	SUMMARY.									
	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
9 h.	1	1	8	1	2	11	4	2	1.5	
21 h.	3	2	5	2	3	9	1	2	1.2	
Mean.	2	2	6	2	1	3	10	2	1.35 = 1.82	

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	" cirrus.	ms.	" meteors.
ci-cu.	" cirro-cumulus.	n.	" nimbus.
ci-st.	" cirro-stratus.	r.	" rain.
cu.	" cumulus.	h. r.	" heavy rain.
cu-f.	" cumulo-form.	c. h. r.	" continued heavy rain.
cu-st.	" cumulo-stratus.	st.	" stratus.
d.	" dew.	sc.	" scud.
f.	" fog.	sl.	" sleet.
fr.	" frost.	s.	" snow.
h. fr.	" hoar-frost.	so. ha.	" solar halo.
h.	" haze.	sq.	" squall.
h. d.	" heavy dew.	sq.	" squalls.
h.	" hail.	t.	" thunder.
l.	" lightning.	t. s.	" thunder storm.
li. cl.	" light clouds.	w.	" wind.
li. sh.	" light showers.	g.	" gale of wind.
lu. co.	" lunar corona.	n. d.	" not discernible.
lu. ha.	" lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range = 26° 6 on the 9th

(Signed)

James Polans + George Redpath

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SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *July* 18*92*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked 'X', were made with a Kew Marine; all the 20 h. 0 m. Observations, and those marked 'X', with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF-REGISTERING THERMOMETERS, In Shade 4 feet above Grass.		HYGROMETER. Kew No.				WIND.				RAIN.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.							
	9 h.	24 h. 0 m.	Max. Kew No.	Min. Kew No.	9 h.		21 h.		9 h.	21 h.	9 h.	21 h.		Amount in inches.	9 h.		21 h.										
					Inches.	Inches.	Dry bulb.	Wet bulb.							Dry bulb.	Wet bulb.	Direction.				Force, 0—6.	Direction.	Force, 0—6.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.
1	30.099	30.114	63.0	50.9	57.3	50.9	54.9	50.9	W	2.0	W	1.0	0.00	1.5 W	16.0	1.5 W	8.0	Fine, mostly cloudy. - So. ha. alt. 8h. & at 19h.	1								
2	30.007	29.793	65.0	48.8	58.7	56.0	58.3	54.7	SE	1.0	SE	1.0	0.01	2.5	10.0	2.5 W	10.0	Cloudy; a few slight sho.	2								
3*	29.708	29.636	64.4	58.3	58.7	56.8	58.8	56.9	S	0.5	W	0.5	0.25	1.3	2.5 W	10.0	2.5 W	Cloudy; a few brisk sho. during day.	3								
4	29.722	29.833	61.6	51.7	52.7	51.1	55.8	51.1	W	2.0	SE	W 1.5	0.30	2.0	10.0	2.5 W	10.0	Cloudy, v. hill aft. 6h. & drizz. sho. till 12h.; sunny	4								
5	29.558	29.642	63.0	52.0	60.2	54.6	52.0	49.7	W	3.0	W	2.5	0.10	1.0	10.0	2.5 W	10.0	Squally; mostly sunny; brisk sho. bet. 1h. 30m. & 3h. and	5								
6	29.663	29.208	64.8	48.8	55.9	50.9	55.2	52.9	W	2.0	W	2.0	0.16	2.0	10.0	2.5 W	10.0	Fine; sunny at times; equally aft. 1.30h. & heavy	6								
7	29.172	29.421	61.0	52.3	57.7	54.2	52.7	48.9	W	3.0	W	2.0	0.07	3.0	10.0	2.5 W	10.0	Fine; mostly sunny; equally; heavy sho. at 1.30h.	7								
8	29.552	29.765	61.9	50.0	57.7	51.9	52.8	49.1	W	3.0	W	2.0	0.03	3.0	10.0	2.5 W	10.0	Fine; sunny at times; equally; pass. sho. alt. 1.15h.	8								
9	29.896	29.889	62.4	50.9	57.8	52.9	51.1	49.9	W	1.5	W	0.5	0.01	2.0	10.0	2.5 W	10.0	Fine, cloudy; showery in the evening.	9								
10*	30.009	30.044	66.2	47.3	63.1	56.2	54.2	52.9	E	1.5	E	1.5	0.00	0.0	10.0	2.5 W	10.0	Fine.	10								
11	30.033	29.950	58.6	48.8	52.0	51.2	50.2	49.7	E	1.5	E	1.5	0.00	0.0	10.0	2.5 W	10.0	Cloudy with thick hanging v. bet. 9h. & noon; mostly	11								
12	29.868	29.786	53.1	49.3	50.8	48.9	50.9	49.1	E	2.5	E	2.5	0.00	2.5	10.0	2.5 W	10.0	Cloudy; li. sho. at 8.30h.	12								
13	29.762	29.866	59.0	47.9	55.5	51.2	51.9	50.2	E	3.0	E	3.0	0.03	3.0	10.0	2.5 W	10.0	Fine; sunny at times.	13								
14	29.960	29.995	60.1	48.7	51.8	48.7	52.2	48.9	E	1.5	E	1.5	0.00	1.5	10.0	2.5 W	10.0	Fine, cloudy; sunny inter. dur. afternoon.	14								
15	30.029	30.074	59.2	49.7	54.8	50.9	52.6	48.6	E	1.5	E	1.5	0.00	1.5	10.0	2.5 W	10.0	Fine; mostly cloudy.	15								
16	29.965	29.963	63.0	49.0	57.9	51.9	51.8	48.2	E	1.0	E	1.0	0.00	1.0	10.0	2.5 W	10.0	Fine; sunny till about 14h., then cloudy.	16								
17*	29.945	29.941	60.4	48.8	52.8	48.0	50.1	47.2	E	0.5	E	0.5	0.00	1.0	10.0	2.5 W	10.0	Fine, cloudy; sunny at times after 1.5h.	17								
18	29.914	29.935	61.0	45.4	55.2	51.1	54.3	51.1	W	1.0	W	0.5	0.00	1.0	10.0	2.5 W	10.0	Fine; mostly cloudy.	18								
19	29.466	29.856	59.3	50.9	53.8	52.9	52.5	50.3	W	2.5	W	2.5	0.38	3.0	10.0	2.5 W	10.0	Cloudy; h.v. at times bet. 14h. & 10h.; day changeable,	19								
20	30.141	30.240	59.0	48.9	54.0	51.4	50.3	47.9	E	1.0	E	1.5	0.00	2.0	10.0	2.5 W	10.0	Fine, cloudy; mostly sunny aft. 16h. - So. ha. at 1.5h.	20								
21	30.201	30.172	69.5	44.0	58.0	54.0	59.1	56.6	W	1.0	W	2.0	0.00	0.0	10.0	2.5 W	10.0	Fine, sunny.	21								
22	30.224	30.242	67.0	54.9	60.9	55.2	57.7	53.8	W	1.5	W	2.0	0.00	1.0	10.0	2.5 W	10.0	Fine; sunny at times.	22								
23	30.282	30.351	67.8	51.9	61.8	58.1	56.0	54.2	W	1.5	W	0.5	0.00	0.0	10.0	2.5 W	10.0	Fine, sunny.	23								
24*	30.361	30.335	69.7	50.8	61.7	57.1	59.6	57.2	E	0.5	W	0.0	0.00	0.0	10.0	2.5 W	10.0	Fine.	24								
25	30.325	30.302	61.1	51.9	53.8	52.9	53.5	52.1	E	1.0	E	2.0	0.00	0.0	10.0	2.5 W	10.0	Cloudy; hazy; sunny inter. dur. afternoon.	25								
26	30.328	30.350	64.0	51.1	57.5	55.1	53.8	52.1	E	1.0	E	2.0	0.00	1.0	10.0	2.5 W	10.0	Fine; mostly sunny after 11h.	26								
27	30.371	30.374	59.2	47.5	55.2	53.1	54.6	51.9	E	1.0	E	1.5	0.00	2.0	10.0	2.5 W	10.0	Cloudy; fine.	27								
28	30.359	30.349	64.0	52.1	61.7	55.0	52.1	50.5	E	1.0	E	1.5	0.00	2.0	10.0	2.5 W	10.0	Fine, clear, sunny.	28								
29	30.329	30.299	59.3	51.2	52.2	51.1	53.2	52.1	E	1.0	E	1.5	0.00	1.0	10.0	2.5 W	10.0	Cloudy with drizz. sho. dur. forenoon; sunny aft. 16h.	29								
30	30.252	30.093	70.2	50.5	52.5	51.9	60.7	57.9	W	0.5	W	0.5	0.00	0.0	10.0	2.5 W	10.0	Fine; sunny at times; hazy.	30								
31*	29.972	29.929	72.1	59.1	60.7	58.1	59.7	57.9	W	1.5	W	2.0	0.04	2.0	10.0	2.5 W	10.0	Fine, mostly sunny dur. forenoon; li. v. after 1.45h.	31								
Sums.	929.473	929.687	1944.9	1563.4	1544.3	1640.3	1682.6	1604.5		16.0		49.5	1.23			257		210									
Corrected Means.	29.983	29.990	62.9	50.4	56.6	52.9	54.3	51.8		1.5		1.6	1.23			8.3		6.8									
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17										

BAROMETER, "corrected Mean"

at 9 h. = 29.983

"Corrected Mean" at 20 h. 0 m. ... = 29.990

Mean, reduced to 32°, and Sea-level, = 29.986

Highest corrected Reading at 20 h. ... = 30.374

Universal Time, on the 27th. ... = 30.374

Lowest corrected Reading at 7th. ... = 29.172

Universal Time, on the 7th. ... = 29.172

Difference, or Monthly Range, = 1.202

S. - R. THERMOMETERS

(in shade, &c.)

Highest in Month (corrected for Index Errors) on the 31st. = 72° 1

Lowest in Month, (corrected for Index Errors), on the 21st. = 44° 0

Difference, or Monthly Range, = 28° 1

"Corrected Mean" of all the Highest, (Col. 3), = 62° 9

"Corrected Mean" of all the Lowest, (Col. 4), = 50° 4

Difference, or Mean Daily Range, = 12° 5

Calculated Mean Temperature of Month, = 56° 6

HYGROMETER, "Corrected"

Mean "of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), = 55° 4

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), = 52° 3

Computed Temperature of Dew-Point, = 49° 4

Do. Elastic Force of Vapour, ... = 353.395

Relative Humidity (Saturation = 100), = 81

RAIN fell on 11 Days; Amount, = 1.23 Inches.

WIND.	SUMMARY.									
	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
9 h.	3	2	1	1	0	1	4	0	0	1.5
21 h.	1	3	10	2	0	2	1	1	0	1.6
Mean.	2	2	10	2	0	1	3	0	1	1.53 = 2.40/16

NOTATION USED IN GENERAL REMARKS.

a. denotes aurora.	m. denotes meteor.
ci. cirrus.	ms. meteors.
ci. cu. cirro-cumulus.	n. nimbus.
ci. st. cirro-stratus.	r. rain.
cu. cumulus.	h. r. heavy rain.
cu. f. cumulo-form.	c. h. r. continued heavy rain.
cu. st. cumulo-stratus.	st. stratus.
d. dew.	sc. scud.
f. fog.	sl. sleet.
fr. frost.	s. snow.
h. fr. hoar-frost.	so. ha. solar halo.
h. haze.	sq. squall.
h. d. heavy dew.	sgs. squalls.
h. l. hail.	t. thunder.
h. cl. light clouds.	t. s. thunder storm.
h. sh. light showers.	w. wind.
h. co. lunar corona.	g. gale of wind.
h. ha. lunar halo.	n. d. not discernible.

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greater Daily Range = 25.5 on the 21st

(Signed) James Boland & George Redpath.

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *August* 18*92*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked ✕, were made with a Kew Marine; all the 21 h. 0 m. Observations, and those marked ✕, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF-REGISTERING THERMOMETERS, In Shade 4 feet above Grass.		HYGROMETER. Kew No.				WIND.				RAIN. Amount in inches.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.
	9 h.	21 h. 0 m.	Max. Kew No.	Min. Kew No.	8 h.		21 h.		8 h.		21 h.			8 h.		21 h.				
					Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force, 0—6.	Direction.	Force, 0—6.		Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.			
1	29.928	30.164	63.0	53.1	61.7	57.4	53.6	50.9	NW	2.0	ESE	1.5	0.01	2.4	8 Cu.	2.4	10 St.	Fine, cloudy.	1	
2	30.129	30.059	64.5	50.1	52.8	51.0	59.4	55.2	SE	1.0	W	2.0	0.03	1.5 NW: 10 St. cum.	2.5 SE: (2) Sc.	1.4 W	8 Cu.	Cloudy, with sho. bet. 4h. & 5h.; sunny after 11h.	2	
3	29.980	29.984	67.6	55.8	59.9	54.1	55.8	51.0	W	2.0	NW	2.0	0.05	2.4 NW: 10 St. cum.	2.4 W: 10 St. cum.	2.4 W	3 Cu.	Fine till 16h. 15m., then showery.	3	
4	30.071	30.023	65.7	44.7	53.8	46.9	55.2	50.9	W	2.0	W	2.0	0.00	2.4 W: 40 Cu. cum.	2.4 W: 10 St. cum.	0	0	Fine, sunny; evening cloudy.	4	
5	29.868	29.702	67.1	52.6	55.8	51.9	55.1	53.9	NW	2.5	NW	2.0	0.10	2.4 W	10 Cu. cum.	2.4 W	9 thin Cu.	Moderately cloudy; brisk sho. bet. 18h. & 19h.; sq. at times.	5	
6	29.646	29.798	64.7	50.8	55.8	51.4	52.9	48.9	NW	3.0	W	2.4	0.00	3.4 W	3 Cu.	0	0	Fine; mostly sunny.	6	
7	29.922	29.914	67.1	47.3	58.8	52.2	53.9	51.1	W	1.5	ESE	0.5	0.00	1.5 NW: 10 St. cum.	1.5 W: 10 St. cum.	1.5 W	10 St. cum.	Fine, sunny till abt. 15h., then cloudy. - So. ha. at 12h.	7	
8	29.807	29.920	53.9	49.3	50.8	50.3	50.2	47.3	ENE	3.0	NE	3.0	1.07	2.5 W: 10 St. cum.	2.5 W: 10 St. cum.	3.4 E: 10 St. cum.	0	Clear, v. heavy at times; fine after 18h.	8	
9	30.058	30.199	59.2	47.4	51.1	45.8	48.3	46.9	W	2.0	E. var.	0.5	0.00	1.5 NE	8 thin Cu.	0	0	Fine; mostly sunny during afternoon.	9	
10	30.209	30.147	66.1	41.9	53.0	49.1	55.4	51.9	W	1.5	NW	1.5	0.00	2.4 W	2 Cu. cum.	1.5 W	7 Cu. cum.	Fine, sunny. - So. ha. visible dur. afternoon.	10	
11	30.005	30.001	65.1	49.0	56.8	55.1	57.6	56.4	NW	2.0	W	0.5	0.11	2.4 W	10 St. cum.	2.4 W	10 St. cum.	Cloudy; sho. bet. 5h. & 9h., & aft. 17h. 40m.	11	
12	29.915	29.702	68.1	54.8	59.7	57.9	61.4	56.9	NW	0.5	SE	2.4	0.00	2.5 W	10 Small Cu.	2.5 W	10 Cu. cum.	Fine; mostly cloudy. - So. ha. at noon.	12	
13	29.463	29.427	69.7	55.7	60.7	57.9	56.6	53.8	S	2.0	NW	2.0	0.36	2.5 SE	10 Cu. cum.	2.4 W	10 Cu. cum.	Very h. sho. bet. 15h. & 18h., with T.L. at 16h. 20m. Changeable; sho. till 9h., mostly sunny from noon till 15h.	13	
14	29.439	29.448	68.2	55.6	63.1	56.2	58.7	54.9	SE	2.5	SE	1.5	0.00	3.5 NW	7 Cu. cum.	2.4 W	10 St. cum.	Fine, sunny; equally. - So. ha. at 15h.	14	
15	29.540	29.799	65.2	53.4	57.5	53.9	55.8	52.2	NW	2.5	NW	2.4	0.52	2.5 W	16 Cu.	2.4 W	1 (low) St.	Heavy v. prev. night; day fine, sunny.	15	
16	29.944	29.912	65.1	52.8	58.7	54.4	55.9	54.2	NW	2.0	S. var.	0.5	0.03	2.4 W	16 Cu.	1.5 SE	10 W.	Moderately cloudy; li. sho. aft. 16h., & cont. v. at 21h. - So. ha. at 16h.	16	
17	29.894	29.991	66.1	51.8	54.3	53.7	53.8	50.9	W	1.0	E	1.0	0.09	2.4 W	9 Cu.	1.5 E	3 Cu.	Fine; mostly sunny.	17	
18	29.896	29.679	55.3	51.8	54.2	53.1	54.6	53.9	ENE	1.5	W	1.5	0.28	2.5 E	10 Cu. cum.	2.4 W	10 Cu. cum.	Clear, li. to mod. v. aft. 6h., with brisk sho. at times.	18	
19	29.700	29.831	62.3	51.9	54.8	53.9	54.3	51.7	W. var.	0.5	W	1.5	0.07	1.5 W	10 Cu.	0	0	Fine; mostly sunny during afternoon.	19	
20	29.955	29.957	70.4	44.1	51.1	49.9	59.0	55.3	Calu.	0	SE	2.0	0.00	0	0	2.5 W	5 Cu. cum.	Fine, sunny. - Fairly so. ha. at 13h. 30m.	20	
21	29.955	30.079	71.1	58.7	67.1	63.2	64.1	60.9	S	2.4	S. var.	1.0	0.07	2.5 SE	2 Cu. cum.	2.4 S	2 Cu. cum.	Fine; sunny at times.	21	
22	29.962	29.882	74.3	57.8	65.7	61.9	57.8	56.7	S	1.5	ENE	0.5	0.00	2.5	(2) Cu. cum.	n.d.	7 faint St.	Fine; mostly sunny. - So. ha. at noon.	22	
23	29.804	29.801	68.3	54.1	59.0	57.9	57.0	55.9	SE	0.5	Calu.	0	0.00	1.5	3 Small Cu.	1.5 W	5 St.	Moderate; day fine, sunny; thick fog at abt. noon.	23	
24	29.748	29.689	61.1	55.5	56.8	56.2	59.7	58.2	E. var.	0.5	SE	1.5	0.06	2.5	(2) Cu. cum.	n.d.	5 St.	Cloudy; sho. till 7h., & aft. 15h.; L. abt. 20h.	24	
25	29.648	29.729	67.2	54.1	55.1	52.1	55.2	51.8	W	2.0	W	2.0	0.00	1.5 NW	8 Cu.	?	8 St. - clearing.	Fine, sunny.	25	
26	29.790	29.670	63.3	51.3	56.1	50.2	53.8	51.7	W	2.4	NW	2.4	0.19	2.5 W	4 Cu.	2.5 W	3 ragged Cu.	Fine, sunny till 14h.; li. sho. aft. 15h., & very h. v. between.	26	
27	29.486	29.436	62.9	51.1	56.3	51.8	52.2	49.9	NW	2.5	W	2.0	0.00	2.5 W	2 Cu.	0	0	Fine; mostly sunny.	27	
28	29.459	29.643	64.0	49.7	57.4	51.7	50.9	47.0	W	2.0	W	1.5	0.02	2.4 W	16 Cu. cum.	1.4 W	6 St.	Fine, sunny; sho. between 14h. & 15h.	28	
29	29.711	29.557	56.8	40.9	46.4	45.0	50.8	50.2	ENE	0.5	ENE	0.5	0.17	?	5 faint Cu.	n.d.	10 W.	Fine, sunny till 10h.; overcast, showery aft. 14h. 15m.	29	
30	29.335	29.214	59.0	50.6	58.2	57.9	55.9	55.7	NE	1.0	Calu.	0	1.06	1.5 W	3 ragged Cu.	n.d.	9 Species?	Clear, h. v. prev. night; & very heavy sho. dur. day.	30	
31	29.262	29.516	57.0	54.1	56.2	55.9	54.8	52.2	W. var.	0.5	W	2.0	0.57	2.4 W	10 Species?	2.4 W	10 Cu. cum.	Clear, heavy sho. till 11h., & drizz. sho. at intervals later.	31	
Sums.	923.449	923.813	1999.4	1591.8	1758.9	1659.9	1719.7	1638.4		50.0		45.4	7.4		213		190			
"Corrected Means."	29.790	29.800	64.5	51.3	56.7	53.5	55.5	52.9		1.6		1.5	4.7		6.9		6.1			
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			

BAROMETER, "corrected Mean" = 29.790
at 9 h.

"Corrected Mean" at 21 h. 0 m. ... = 29.800

70 ft. = 29.795
Mean, reduced to 32°, and Sea-level, = 29.795Highest corrected Reading at 8 h. ... = 30.209
Universal Time, on the 10th.Lowest corrected Reading at 21 h. ... = 29.214
Universal Time, on the 31st.

Difference, or Monthly Range, ... = 0.995

S. - R. THERMOMETERS

(in shade, &c.) = 74.3
Highest in Month (corrected for Index Errors) on the 22nd.

Lowest in Month, (corrected for Index Errors), on the 29th. ... = 40.9

Difference, or Monthly Range, ... = 33.4

"Corrected Mean" of all the Highest, (Col. 3), ... = 64.5

"Corrected Mean" of all the Lowest, (Col. 4), ... = 51.3

Difference, or Mean Daily Range, ... = 13.2

Calculated Mean Temperature of Month, = 57.9

HYGROMETER

"Corrected" Mean of 8 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), ... = 56.1

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), ... = 53.2

†† Computed Temperature of Dew-Point, = 49.7

†† Do. Elastic Force of Vapour, ... = 0.369

†† Relative Humidity (Saturation = 100), = 82

RAIN fell on 19 Days; Amount, ... = 4.74 Inches.

WIND.		SUMMARY.				Mean Force.	Mean Velocity in miles per day.
Direction.	Force.	N	NE	E	SE		
9 h.	1	2	3	2	3	1	1.6
21 h.	0	1	5	1	3	1	1.5
Mean.	1	1	4	2	3	1	1.55 = 2.40

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ma.	meteors.
ci-cu.	cirro-cumulus.	n.	nimbus.
ci-st.	cirro-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-f.	cumulus-foam.	c. h. r.	continued heavy rain.
cu-st.	cumulo-stratus.	st.	stratus.
d.	dew.	sc.	scud.
f.	fog.	sl.	sleet.
fr.	frost.	s.	snow.
h. fr.	hoar-frost.	so. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sq.	squalls.
hl.	hail.	t.	thunder.
l.	lightning.	t. s.	thunder storm.
li. cl.	light clouds.	w.	wind.
li. sh.	light showers.	g.	gale of wind.
lu. co.	lunar corona.	n. d.	not discernible.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

†† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range = 26.3 within 24h.

(Signed)

James Polson & George Redpath

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *September* 189*2*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked *X*, were made with a Kew Marine; all the 24 h. *o* m. Observations, and those marked *X*, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF-REGISTERING THERMO-METERS, In Shade 4 feet above Grass.		HYGROMETER, Kew No.				WIND.		RAIN.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.					
	9 h.	24 h. 0 m.	Max. Kew No.	Min. Kew No.	9 h.		21 h.		9 h.	21 h.		9 h.	21 h.										
	Inches.	Inches.			Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction	Force, 0—6.		Direction	Force, 0—6.	Amount in inches.	Velocity (0—6), and Direction.				Amount, (0—10), and Species.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.		
1	29.509	29.495	58.2	47.8	52.1	49.4	52.9	51.4	S	2.0	SW	1.5	0.07	2 SW	10.5	bi. d. n. d.	10.5	Species?	Thermos. read at 8h.	Cloudy; a few passing sho.	1		
2	29.371	29.371	56.3	46.8	49.3	47.3	48.0	46.8	WSW	1.5	W	1.5	2.3	2 W	1 St. Cirrus	2 W	2 St.	Do.	do.	Changeable; freq. heavy r. with h. at 9h. S.W.; T. & L.	2		
3	29.478	29.840	58.2	45.0	49.6	45.4	51.8	47.0	W	3.0	W	2.4	0.00	2 W	10.5	bi. d. n. d.	1.5	W	7.5	Thin buff.	2 St. Cirrus	3	
4	30.120	30.219	61.8	45.4	53.2	46.9	48.0	44.2	W	2.4	W	2.0	0.00	2 W	10.5	bi. d. n. d.	5	W	0	0	0	0	4
5	30.219	30.126	61.2	42.1	51.6	49.0	56.8	52.0	SSW	1.0	SW	2.4	0.00	2 W	10.5	bi. d. n. d.	1	W	2.5	W	6 St.	0	5
6	30.133	30.088	61.8	51.1	57.7	53.9	51.1	47.7	WSW	1.0	Variable	0.5	0.00	0	0	0	1	SW	1 St.	0	0	0	6
7	29.857	29.985	56.0	47.5	54.9	53.0	47.8	45.0	SW	1.0	W	1.5	1.0	2.5	SW	10.5	bi. d. n. d.	0	0	0	0	0	7
8	30.072	29.986	63.0	43.5	53.9	50.1	52.8	47.9	W	1.0	W	1.0	0.01	0	0	0	1.5	W	7	W	6	W	8
9	29.889	29.847	63.0	42.8	56.3	53.4	54.8	51.9	W	1.0	WSW	1.5	0.00	1 W	10.5	bi. d. n. d.	2	W	10	St.	4	W	9
10	29.929	29.976	63.0	50.2	56.8	52.5	52.1	48.9	W	2.0	W	1.5	0.00	2 W	10.5	bi. d. n. d.	1	W	0	0	0	0	10
11	29.877	29.846	60.3	48.7	55.8	51.1	52.9	50.9	SW	2.0	W	2.0	0.02	0	0	0	0	0	0	0	0	0	11
12	29.872	29.640	61.5	51.0	56.7	52.0	59.1	56.4	SW	2.0	SW	2.0	0.02	2 W	10.5	bi. d. n. d.	2	W	4	W	4	W	12
13	29.432	29.881	64.8	49.1	52.9	58.1	49.1	45.9	WSW	2.0	W	1.5	0.00	2.5	W	7	W	n. d.	1	(low) St.	0	0	13
14	29.930	29.858	59.0	47.0	53.9	50.1	55.2	51.9	WSW	2.0	SW	2.0	0.01	2.5	W	10.5	bi. d. n. d.	4	W	10	Species?	0	14
15	29.806	29.637	60.9	54.0	56.8	52.9	55.9	50.4	SW	1.5	SSW	1.2	0.00	2.4	W	7	W	?	5	St.	0	0	15
16	29.425	29.575	58.4	49.6	54.6	48.4	49.8	46.3	SSW	2.5	WSW	2.5	0.00	2	SW	1	W	3	W	7	St. r. c.	Ant. var.	16
17	30.037	29.973	58.0	42.0	50.8	45.0	53.0	47.9	W	1.5	SW	2.5	0.00	2.5	W	11	W	n. d.	9	Species?	0	0	17
18	29.835	29.696	58.8	52.3	55.3	51.9	57.9	55.1	SW	2.5	SW	2.5	0.07	2.5	W	10	W	n. d.	10	Species?	0	0	18
19	29.695	29.936	60.8	51.3	58.1	54.6	51.8	49.1	W	2.5	E	1.6	0.01	2	W	7	W	n. d.	10	St.	0	0	19
20	30.132	30.223	52.7	47.1	48.8	47.0	48.8	45.0	E	2.0	E	2.4	0.08	2	E	10	W	2	E	6	St.	0	20
21	30.294	30.347	54.0	41.8	48.9	44.4	41.8	40.0	E	1.0	E	1.0	0.00	2	E	9	W	0	0	0	0	0	21
22	30.372	30.285	57.5	40.6	50.4	46.6	48.8	47.1	ESE	1.5	ESE	0.5	0.00	2	ESE	9	W	n. d.	10	faint St.	0	0	22
23	30.089	29.788	58.0	48.0	50.0	49.1	56.8	52.9	calm	0	S	2.0	0.00	n. d.	10	W	2.5	W	8	buff.	0	0	23
24	29.650	29.648	56.8	46.2	50.8	46.6	51.9	47.9	W	2.5	W	2.5	0.21	2.5	W	2	W	3	W	3-8	Scud.	0	24
25	29.496	29.699	60.0	48.6	55.5	51.5	49.1	46.1	WSW	2.5	W	1.2	0.06	3.5	W	1	W	n. d.	2	faint St.	0	0	25
26	29.764	29.508	60.6	48.3	54.8	49.9	58.2	53.9	WSW	2.0	SSW	3.0	0.00	2.4	W	7	W	n. d.	3	W	3	W	26
27	29.218	29.279	59.5	46.6	57.2	54.9	46.6	44.0	WSW	2.5	W	2.5	0.21	2	W	10	W	n. d.	10	Species?	0	0	27
28	29.554	29.509	52.9	42.2	47.0	43.0	44.8	41.5	W	2.4	SW	2.0	0.12	0	0	0	0	0	0	0	0	0	28
29	29.302	29.331	52.7	43.7	50.0	45.5	44.9	43.0	WSW	2.5	WSW	1.5	0.01	2	W	7	W	?	3	faint St.	0	0	29
30	29.307	29.326	51.3	41.0	45.2	43.3	42.9	41.8	S	1.0	calm	0	0.03	0	0	0	1	W	5	W	5	W	30
Sums.	893.764	893.918	1761.0	1401.3	1598.7	1486.8	1535.1	1439.6		55.0		52.5	123		200		15.5						
"Corrected Means."	29.790	29.797	58.7	46.7	53.3	49.6	51.2	48.0		1.8		1.9	1.23		6.7		5.1						
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

BAROMETER, "corrected Mean" at 9 h. = 29.790

"Corrected Mean" at 24 h. *o* m. ... = 29.797

70 ... = 29.793

Mean, reduced to 32°, and Sea-level, ... = 29.793

Highest corrected Reading at 8 h. ... = 30.372

Universal Time, on the 22nd ... = 30.372

Lowest corrected Reading at 7 h. ... = 29.248

Universal Time, on the 27th ... = 29.248

Difference, or Monthly Range, ... = 1.154

S. - R. THERMOMETERS (in shade, &c.) = 64° 8

Highest in Month (corrected for Index Errors) on the 13th ... = 64° 8

Lowest in Month, (corrected for Index Errors), on the 22nd ... = 40° 6

Difference, or Monthly Range, ... = 24° 2

"Corrected Mean" of all the Highest, (Col. 3), ... = 58° 7

"Corrected Mean" of all the Lowest, (Col. 4), ... = 46° 7

Difference, or Mean Daily Range, ... = 12° 0

Calculated Mean Temperature of Month, ... = 52° 7

HYGROMETER, "Corrected" Mean of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), ... = 52° 2

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), ... = 48° 8

†† Computed Temperature of Dew-Point, ... = 45° 3

†† Do. Elastic Force of Vapour, ... = 303.344

†† Relative Humidity (Saturation = 100), ... = 78

RAIN fell on 16 Days; Amount, ... = 1.23 Inches.

WIND.	SUMMARY.									
	N	NE	E	SE	S	SW	W	NW	Cal or Variable.	Mean Force.
9 h.	1	0	3	0	4	5	16	0	1	1.8
21 h.	0	0	3	1	3	4	13	1	2	1.9
Mean.	1	0	3	0	4	6	14	1	1	1.85

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	cirrus.	ms.	meteors.
ci-cu.	cirrus-cumulus.	n.	nimbus.
ci-st.	cirrus-stratus.	r.	rain.
cu.	cumulus.	h. r.	heavy rain.
cu-f.	cumulus-form.	c. h. r.	continued heavy rain.
cu-st.	cumulo-stratus.	st.	stratus.
d.	dew.	sc.	scud.
f.	fog.	sl.	sleet.
fr.	frost.	s.	snow.
h. fr.	hoar-frost.	so. ha.	solar halo.
h.	haze.	sq.	squall.
h. d.	heavy dew.	sqs.	squalls.
hl.	hail.	t.	thunder.
l.	lightning.	t. s.	thunder storm.
li. cl.	light clouds.	w.	wind.
li. sh.	light showers.	g.	gale of wind.
lu. co.	lunar corona.	n. d.	not discernible.
lu. ha.	lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

†† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range = 20.2 on the 9th

(Signed)

James Boland & George Redpath

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *October*

1892. Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

Note.—All the 9 h. Barometric Observations in this Schedule, except those marked X, were made with a Kew Marine; all the 4 h. 0 m. Observations, and those marked X, with a Fortin Standard.

Days of Month	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF-REGISTERING THERMOMETERS, In Shade 4 feet above Ground.		HYGROMETER, Kew No.		WIND		RAIN		CLOUDS		SPECIAL REMARKS	GENERAL REMARKS, As to occurrence of Thunder, Lightning, Storms, Hail, Meteor, &c.	Days of Month
	9 h.	4 h. 0 m.	Mean, Kew No.	Min. Kew No.	9 h.	21 h.	9 h.	21 h.	Amount in inches.	Velocity (0-4), and Direction.	Amount, (0-10), and Species.	Velocity (0-10), and Direction.			
	Inches.	Inches.			Dry bulb.	Wet bulb.	Direction.	Force, 0-4.							
1	29.362	29.354	58.9	44.3	42.3	46.0	45.0	6	0.5	SE	10.0	15.5	8 h. m. b. n.	5.5 h. m. b. n.	1
2	29.447	29.617	49.0	40.2	45.2	45.0	42.4	5.0	0.5	SE	10.0	16.0	10 h. m. b. n.	6.5 h. m. b. n.	2
3	29.687	29.677	51.0	41.9	43.8	47.9	49.2	48.9	1.0	SE	10.0	15.0	10 h. m. b. n.	10.0 h. m. b. n.	3
4	29.627	29.601	52.3	46.3	47.1	46.5	45.3	47.6	0.5	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	4
5	29.308	29.104	49.3	44.6	44.5	46.0	49.3	46.3	0.5	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	5
6	29.209	29.152	56.9	47.3	47.1	48.1	46.9	46.6	0.5	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	6
7	29.181	29.380	51.0	45.0	47.0	46.6	46.9	45.3	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	7
8	29.394	29.380	49.6	47.6	42.9	39.3	41.9	40.0	2.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	8
9	29.529	29.238	51.5	41.4	46.7	45.8	45.4	44.0	2.5	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	9
10	29.679	29.587	58.0	42.9	46.4	43.0	44.9	42.5	1.5	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	10
11	29.046	29.158	51.1	39.4	43.9	42.9	44.3	41.3	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	11
12	29.204	29.218	49.5	39.9	42.9	39.9	41.5	41.1	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	12
13	29.178	29.149	47.5	46.9	43.3	45.2	44.9	47.9	2.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	13
14	29.146	29.117	51.4	47.5	40.1	47.9	49.5	47.4	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	14
15	29.079	29.057	49.5	45.9	46.9	44.2	44.9	42.5	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	15
16	29.982	29.059	47.5	40.9	43.0	39.9	41.9	38.1	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	16
17	29.155	29.279	45.3	38.4	41.1	37.2	39.9	37.5	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	17
18	29.364	29.384	45.4	34.1	38.0	35.2	38.0	35.7	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	18
19	29.021	29.149	46.1	34.1	43.7	41.3	44.9	43.1	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	19
20	29.037	29.580	46.0	39.9	40.1	40.6	39.9	39.0	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	20
21	29.676	29.680	44.4	38.5	39.9	38.0	41.9	39.0	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	21
22	29.659	29.573	43.0	36.1	39.8	35.6	36.9	33.0	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	22
23	29.515	29.585	44.3	36.2	41.6	36.2	39.7	37.4	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	23
24	29.776	29.575	42.9	35.4	38.4	35.2	35.4	33.0	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	24
25	29.890	29.945	44.0	28.6	31.3	29.0	33.8	30.5	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	25
26	29.014	29.120	44.4	26.9	29.9	28.3	36.9	34.1	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	26
27	29.356	29.200	53.2	36.7	41.2	40.4	49.8	47.9	2.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	27
28	29.012	29.088	53.0	48.5	55.8	51.9	53.7	50.9	2.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	28
29	29.008	29.251	57.6	45.2	42.0	51.2	44.2	43.6	0.5	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	29
30	29.576	29.658	49.5	42.0	44.2	41.0	46.1	43.0	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	30
31	29.679	29.876	47.0	33.9	41.7	40.0	38.9	37.0	1.0	SE	10.0	16.0	10 h. m. b. n.	10.0 h. m. b. n.	31
Sum	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
Corrected Mean	29.684	29.713	49.2	40.3	44.2	44.2	44.2	44.2	1.5	1.6	3.69	6.5	6.7	6.7	6.7
No. of Clouds	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

BAROMETER, "Corrected Mean"

at 9 h. = 29.684

"Corrected Mean" at 4 h. 0 m. = 29.713

70 = 29.697

Mean, reduced to 32° and Sea-level. = 29.697

Highest corrected Reading at 2 h. 30 m. = 30.367

Universal Time, on the 15th. = 30.367

Lowest corrected Reading at 4 h. 0 m. = 28.829

Universal Time, on the 9th. = 28.829

Difference, or Monthly Range, = 1.538

S. R. THERMOMETERS

(in shade, 4 ft.) = 58° 0

Highest in Month, (corrected for Index Errors) on the 25th. = 58° 0

Lowest in Month, (corrected for Index Errors) on the 26th. = 26° 9

Difference, or Monthly Range, = 31° 1

"Corrected Mean" of all the Highest, (Col. 5). = 49° 2

"Corrected Mean" of all the Lowest, (Col. 4). = 40° 3

Difference, or Mean Daily Range, = 8° 9

Observed Mean Temperature of Month, = 44° 7

HYGROMETER, "Corrected"

Mean of 9 h. and 21 h. = 44° 1

Reading of Dry Bulb (Col. 5 and 7). = 44° 1

"Corrected Mean" of 9 h. and 21 h. = 41° 7

Reading of Wet Bulb (Col. 6 and 8). = 41° 7

Computed Temperature of Dew-Point, = 38° 9

Dew Elastic Force of Vapour, = 0.237 273

Relative Humidity (Saturation = 100), = 80

RAIN fell on 20 Days; Amount, = 3.69 Inches

SUMMARY.

WIND.

Direction.

9 h.

21 h.

Mean.

4.2 3.2 1.3 1.4 2.0 1.5 1.6 1.5 2.4 0.0

155 = 240.0

NOTATION USED IN GENERAL REMARKS.

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

TABLE FOR ESTIMATING FORCE OF WIND

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

† These Hygrometric Data are calculated from Glaisher's Hygrometric Tables, Sixth Edition.

Observations made and Return verified by

Greatest Daily Range = 16° 5 on the 27th

(Signed)

James Balcan & George Rappall

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *November* 18*97*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked ✕, were made with a Kew Marine; all the 20 h. 0 m. Observations, and those marked ✕, with a Fortin Standard.

Days of Month.	BAROMETER, Corrected and Reduced to 32° and Sea Level.		SELF-REGISTERING THERMOMETERS, In Shade 4 feet above Grass.		HYGROMETER, Kew No.				WIND.				RAIN.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.	
					9 h.		21 h.		9 h.		21 h.			9 h.		21 h.					
	9 h.	21 h. 0 m.	Max. Kew No.	Min. Kew No.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Direction.	Force, 0-6.	Direction.	Force, 0-6.		Amount in inches.	Velocity (0-6), and Direction.	Amount, (0-10), and Species.	Velocity (0-6), and Direction.				Amount, (0-10), and Species.
	Inches.	Inches.	°	°	°	°	°	°													
1	29.868	29.878	41.9	33.2	35.7	35.0	40.9	39.0	ESE	0.5	calm	0	0.00	0.5 W. 10 ft. 6 in.	0	0.5 W. 9.5 in.		For thick f.; sunny at times.	1		
2	29.730	29.455	45.0	31.9	32.9	32.0	45.0	43.0	SE	1.4	S	1.5	0.03	0.5 S. 10 ft. 6 in.	1.5 S. 10 ft. 6 in.	2.6 in.		Mostly cloudy; sho. after 18 h.	2		
3	29.378	29.666	51.8	40.2	48.8	45.0	46.1	43.6	Wly	1.0	S	1.5	0.01	1.0 W. 10 ft. 6 in.	1.5 W. 10 ft. 6 in.	5.0 in. 6 in.		Fine; sunny at times. - Su. ha. at 21 h. 30 m.	3		
4	29.507	29.533	56.0	43.9	51.3	48.7	52.5	48.4	SE	2.4	SE	2.5	0.01	2.0 W. 10 ft. 6 in.	2.6 in. 2.6 in.	0		Cloudy, with li. sho. bet. 7.30 h. & 9 h.; sunny inter. aft. 12 h. ^{Evening clear.}	4		
5	29.560	29.715	55.6	48.6	52.8	48.8	49.7	46.1	S	2.0	SE	2.0	0.03	2.4 S. 10 ft. 6 in.	2.6 in. 2.6 in.	1.5 S. 10 ft. 6 in.		Fine; mostly sunny.	5		
6	29.818	29.967	49.7	40.3	43.9	42.8	44.0	42.8	Variable	0.25	W. 10 ft. 6 in.	1.0	0.00	2.0 W. 10 ft. 6 in.	3.0 in. 6 in.	0		Cloudy; thick haze; cloudless at 21 h.	6		
7	30.139	30.107	46.5	34.8	35.9	35.3	44.0	41.7	W. 10 ft. 6 in.	0.5	W	2.0	0.00	0.5 W. 10 ft. 6 in.	0	n. d. (prob. 10) 3.0 in. 6 in.		Fog till 11 h. then mostly sunny. - Su. ha. at 21 h.	7		
8	30.070	29.941	53.0	43.1	49.7	46.9	51.9	48.1	SE	2.4	SE	2.4	0.11	2.0 W. 10 ft. 6 in.	(2) 5.0 in.	n. d. 10.0 in.		Cloudy; sho. till 12.30 h.; equally after 1.5 h.	8		
9	29.893	29.993	54.0	46.2	52.0	48.9	46.2	45.0	SE	2.4	SE	1.5	0.03	1.5 S. 10 ft. 6 in.	10.0 in. 6 in.	0		Clear; drizz. sho. after 14 h.; cloudless at 21 h.	9		
10	30.050	30.037	48.0	36.1	37.4	37.0	43.9	41.8	Wly	1.0	SE	1.5	0.00	1.0 W. 10 ft. 6 in.	9.0 in. 6 in.	0		For f. till after 12 h.; sunny at times.	10		
11	30.008	30.025	54.9	41.7	48.6	46.5	45.9	44.0	S	1.5	calm	0	0.00	2.5 W. 10 ft. 6 in.	10.0 in. 6 in.	0		Fine; mostly sunny during afternoon.	11		
12	29.932	29.762	49.8	40.4	44.9	42.2	47.8	45.0	W. 10 ft. 6 in.	0.5	SE	1.5	0.00	1.5 W. 10 ft. 6 in.	10.0 in. 6 in.	n. d. 8.0 in.		Fine; sunny at times.	12		
13	29.639	29.663	49.0	45.1	47.1	46.6	45.4	44.8	SE	0.5	calm	0	0.07	2.5 W. 10 ft. 6 in.	10.0 in. 6 in.	n. d. 10.0 in.		Clear; li. v. at times; very dull and damp.	13		
14	29.641	29.333	55.3	40.2	42.7	41.0	54.8	51.9	SE	1.5	SE	2.0	0.11	1.0 W. 10 ft. 6 in.	10.0 in. 6 in.	2.4 S. 10 ft. 6 in.		Overcast; frequent sho. after 9 h. 10 m.	14		
15	29.402	29.730	53.6	44.9	49.3	45.8	46.0	43.0	W	1.5	W	2.0	0.02	2.5 W. 10 ft. 6 in.	2.0 in. 6 in.	n. d. 10.0 in.		Fine; cloudy, with sunny intervals.	15		
16	29.811	29.923	46.0	37.0	38.9	38.0	38.3	38.0	Wly	1.0	Wly	0.25	0.00	1.5 S. 10 ft. 6 in.	6.0 in. 6 in.	0		Thick haze chiefly.	16		
17	30.070	29.964	41.7	33.1	34.6	34.0	38.1	37.0	Variable	0.25	SE	0.5	0.00	1.5 W. 10 ft. 6 in.	9.0 in. 6 in.	0		Fog; thick h. f. in the morning; very much cleared.	17		
18	29.879	29.771	41.2	32.7	33.0	32.2	35.3	33.0	Variable	0.25	SE	1.0	0.00	1.5 S. 10 ft. 6 in.	9.0 in. 6 in.	0		Cloudy; hazy; sunny inter. aft. noon. - So. ha. at 1.30 h.	18		
19	29.689	29.803	40.9	31.4	34.9	32.8	40.9	40.0	SE	0.5	SE	0.5	0.03	1.5 S. 10 ft. 6 in.	2.6 in. 6 in.	n. d. 10.0 in.		Cloudy; li. sho. at inter. after 1.30 h. 30 m.	19		
20	29.992	30.206	46.3	40.3	42.8	41.0	44.9	43.4	SE	1.0	SE	0.5	0.00	1.5 S. 10 ft. 6 in.	9.0 in. 6 in.	n. d. 10.0 in.		Fine; mostly cloudy; sunny inter. chiefly aft. noon.	20		
21	30.375	30.421	45.8	42.8	43.1	42.8	44.2	42.4	E	1.0	E	2.0	0.02	1.5 SE 10 ft. 6 in.	10.0 in. 6 in.	n. d. 10.0 in.		Cloudy; drizz. sho. till nearly 9 h.	21		
22	30.444	30.414	45.0	32.0	38.4	37.7	44.1	41.3	SE	1.0	E	1.5	0.00	2.0 W. 10 ft. 6 in.	0	n. d. 10.0 in.		Fine; sunny till about 14 h. then cloudy.	22		
23	30.351	30.269	44.1	35.2	40.4	38.0	39.3	37.4	E	1.5	calm	0	0.00	2.5 SE 10 ft. 6 in.	10.0 in. 6 in.	n. d. 10.0 in.		Fine; mostly sunny; evening hazy.	23		
24	30.195	30.215	40.0	36.6	36.9	35.2	39.9	37.3	W. 10 ft. 6 in.	1.0	Wly	0.25	0.00	2.0 W. 10 ft. 6 in.	10.0 in. 6 in.	n. d. 10.0 in.		Dull.	24		
25	30.243	30.115	42.0	35.2	37.9	35.8	42.0	39.4	SE	1.0	SE	2.0	0.02	1.5 SE 10 ft. 6 in.	8.0 in. 6 in.	n. d. 10.0 in.		Fine; sunny at times.	25		
26	29.881	30.121	48.0	36.2	46.2	45.1	41.9	40.2	W	1.5	W. 10 ft. 6 in.	1.5	0.44	n. d. 10.0 in. 6 in.	0	0		Cloudy; h. with f. till 14 h. then fine; cloudless at 21 h.	26		
27	30.176	30.168	53.0	41.4	47.9	46.3	51.8	48.9	SE	2.5	SE	2.5	0.00	2.5 W. 10 ft. 6 in.	6.0 in. 6 in.	0		Cloudy.	27		
28	30.083	29.665	54.0	50.5	52.0	48.5	52.9	49.2	SE	2.5	SE	2.5	0.00	2.5 W. 10 ft. 6 in.	6.0 in. 6 in.	0		Fine; mostly sunny; equally after 16 h.	28		
29	29.788	29.662	53.8	35.1	38.7	36.5	35.1	34.2	W	2.5	W. 10 ft. 6 in.	2.4	0.27	2.5 W. 10 ft. 6 in.	16.0 in. 6 in.	0		Changeable; fine, sunny till noon; fresh heavy sho. aft. 1.30 h.	29		
30	29.947	29.965	38.3	32.9	33.1	30.8	35.9	34.2	W	1.4	W. 10 ft. 6 in.	1.0	0.00	0	0	0		Fine, sunny; li. s. sho. at 18 h.	30		
Sums.	89.433	89.487	1446.2	1163.0	1278.1	1277.2	1328.1	1264.1		38.5		1.25	1.20								
Corrected Means.	29.914	29.916	48.2	38.8	43.4	40.6	44.3	42.1		1.3		1.4	1.20								
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				

BAROMETER, "corrected Mean" = *29.914*
 at 9 h.
 "Corrected Mean" at 20 h. 0 m. ... = *29.916*
 70 feet ... = *29.838*
 Mean, reduced to 32°, and Sea-level, = *29.915*
 Highest corrected Reading at 11 h. ... = *30.446*
 Universal Time, on the 21st.
 Lowest corrected Reading at 11 h. ... = *29.838*
 Universal Time, on the 21st.
 Difference, or Monthly Range, = *0.608*

S. - R. THERMOMETERS
 (in shade, &c.)
 Highest in Month (corrected for Index Errors) on the 14th. = *56.0*
 Lowest in Month, (corrected for Index Errors), on the 19th. = *31.4*
 Difference, or Monthly Range, = *24.6*
 "Corrected Mean" of all the Highest, (Col. 3), = *48.2*
 "Corrected Mean" of all the Lowest, (Col. 4), = *38.8*
 Difference, or Mean Daily Range, = *9.4*
 Calculated Mean Temperature of Month, = *43.5*

HYGROMETER, "Corrected Mean" of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), = *43.3*
 "Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), = *41.3*
 ‡ Computed Temperature of Dew-Point, = *38.9*
 ‡ Do. Elastic Force of Vapour, ... = *0.237*
 ‡ Relative Humidity (Saturation = 100), = *84*
 RAIN fell on 14 Days; Amount, = *1.24* Inches.

WIND.	SUMMARY.									
Direction	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
9 h.				6	4	4	3	9	1	3
21 h.				2	5	6	7	4	1	4
Mean.	0	0	4	4	5	5	8	0	4	1.35 = 1.82

NOTATION USED IN GENERAL REMARKS.

a. denotes aurora.	m. denotes meteor.
ci. " cirrus.	ms. " meteors.
ci-cu. " cirro-cumulus.	n. " nimbus.
cu. " cumulus.	r. " rain.
cu-f. " cumulo-form.	h. r. " heavy rain.
cu-st. " cumulo-stratus.	c. h. r. " continued heavy rain.
d. " dew.	st. " stratus.
f. " fog.	sc. " squall.
fr. " frost.	sl. " sleet.
h. fr. " hoar-frost.	s. " snow.
h. d. " heavy dew.	so. ha. " solar halo.
hl. " hail.	sq. " squall.
l. " lightning.	t. " thunder.
li. cl. " light clouds.	t. s. " thunder storm.
li. sh. " light showers.	w. " wind.
lu. co. " lunar corona.	w. g. " blowing a gale.
lu. ha. " lunar halo.	n. d. " not discernible.

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

‡ These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Quickest Rain Gauge = *18.7* on the 24th (Signed) *James Boland & George Redpath*

SCOTTISH METEOROLOGICAL SOCIETY.

OBSERVATIONS taken at LEITH, County of Edinburgh, in Lat. 55° 59' N., Long. 3° 10' W., during the MONTH of *December* 189*7*; Distance from Sea, Half-Mile.

The Hours of Observation are of Universal Time, same as Greenwich Mean Time.

NOTE.—All the 9 h. Barometric Observations in this Schedule, except those marked *X*, were made with a Kew Murine; all the 21 h. *O* m. Observations, and those marked *X*, with a Fortin Standard.

Days of Month.	BAROMETER. Corrected and Reduced to 32° and Sea Level.		SELF- REGISTERING THERMO- METERS. In Shade 4 feet above Grass.		HYGROMETER Kew No.				WIND.				RAIN. Amount in inches.	CLOUDS.				SPECIAL REMARKS.	GENERAL REMARKS. As to occurrence of Thunder, Lightning, Storms, Hail, Meteors, &c.	Days of Month.				
	9 h.	21 h. 0 m.	Max. Kew No.	Min. Kew No.	9 h.		21 h.		9 h.	21 h.	9 h.	21 h.		9 h.		21 h.								
					Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.						Direction	Force, 0—6.	Direction	Force, 0—6.				Velocity (0—6), and Direction.	Amount, (0—10), and Species.	Velocity (0—6), and Direction.	Amount, (0—10), and Species.
1	29.807	29.924	37.0	29.7	33.1	32.8	29.7	28.0	SSW	1.5	Walt	1.15	0.195	1.5 W	8 Buf.	0	0	Cloudy; freq. sho. of S. r. till 1st. h. cloudless at 21h.	1					
2	30.158	30.015	29.7	23.9	25.9	25.4	24.8	?	Walt	1.0	calm	0	00	0	0	0	0	Thick low haze. — In. h. at 18h. & 21h.	2					
3	29.439	29.271	42.1	24.8	36.9	36.0	32.4	30.2	S	1.5	Walt	2	11	2.4 SW	10 St.	0	0	Changeable; s. r. sho. till 8h. r. sho. at 13h. other- <i>Excess fine, with sunny inters.</i>	3					
4	29.459	29.535	32.4	28.2	28.6	26.4	29.7	28.1	W	1.5	Walt	2	00	0	0	0	0	Fine, sunny; nearly cloudless.	4					
5	29.589	29.627	32.0	27.1	27.7	24.8	25.3	?	W	1.5	W	2.0	00	0	0	0	0	Fine; sunny inters. at and about noon.	5					
6	29.695	29.940	39.9	27.9	37.0	34.5	36.9	35.8	W	2.0	W	2.0	02	2.4 W	8 M. diff. St.	3 W.	10 Scud.	Mostly cloudy; li. r. sho. at 11h. & r. sho. at 13h. after 18h. — <i>[L. at 2.2h. 5m.]</i>	6					
7	30.188	30.251	37.9	32.3	34.9	33.7	35.0	33.0	Walt	1.0	Walt	1.1	14	1.6 NE	5 Bu.	?	9 St.	Thick low haze.	7					
8	30.206	29.741	36.2	30.3	33.1	32.0	33.4	33.2	Walt	1.0	E	0.5	19	1 W	2 St.	n. d.	10 W.	Cloudy; hazy; sho. of r. at 1. & o. after 14h. 4.5 m.	8					
9	29.905	30.037	35.9	31.2	32.9	30.2	32.2	30.7	Walt	1.5	W	1.5	05	0	0	0	0	Fine, sunny; nearly cloudless.	9					
10	29.871	29.300	44.1	26.7	33.9	32.0	43.9	42.0	Walt	1.0	SW	2.0	06	n. d.	10 species?	n. d.	10 species?	Clear; li. sho. of r. & d. bet. 9h. & 13h. & r. sho. after 18h.	10					
11	29.143	29.192	43.9	36.9	39.0	37.2	40.9	38.3	SW	2.0	Walt	2.0	06	2 Walt	10 St.	?	9 (prob) St.	Cloudy; li. sho. abt. 15.30h. — faint trace of dr. h. at noon!	11					
12	29.332	29.530	40.9	35.5	38.0	35.8	35.9	33.0	Walt	1.5	W	2.0	00	1 W	5 thin Buf.	n. d.	2 (low) St.	Fine, sunny.	12					
13	29.864	29.981	37.3	33.7	36.6	31.9	35.0	33.0	W	2.0	calm	0	00	0	0	n. d.	10 species?	Fine, sunny; rather hazy.	13					
14	29.698	29.837	45.9	34.6	45.4	44.8	43.0	40.6	W	1.5	SW	2.0	14	n. d.	10 species?	0	0	Cloudy; drugg. r. with thick f. till 13h. then fine.	14					
15	29.785	29.983	46.0	41.9	45.1	43.0	43.2	40.0	Walt	1.0	Walt	2.5	00	1 Walt	10 (prob) St. h.	0	0	Fine; mostly cloudy; cloudless at 21h.	15					
16	30.114	29.834	51.1	38.6	40.1	38.2	50.2	49.1	Variable	0.75	SW	3.5	02	1 W	10 St. h.	n. d.	10 W.	Cloudy, with sunny inters. abt. noon; dr. h. after 21h.	16					
17	29.921	29.947	52.2	47.1	47.8	44.9	51.9	49.7	W	2.0	SW	1.5	03	2 W	7 Bu.	n. d.	10 species?	Clear. after 17h. 30 m.	17					
18	29.822	29.962	55.0	45.9	49.8	46.8	46.9	43.3	Walt	1.5	Walt	1.5	01	2 W	2 (2) faint St.	n. d.	2 St.	Thick fog; dr. h. till 11h. 2h.; day fine, sunny at 11h. & 16.	18					
19	30.002	30.008	47.2	41.7	46.9	45.2	42.2	42.0	Walt	1.5	Walt	0.75	06	2 W	10 species?	n. d.	10 W.	Overcast; drugg. r. at times; very dull.	19					
20	30.088	30.094	42.2	38.1	38.4	38.0	40.4	39.7	E	2.0	E	0.5	05	2.5 E	10 thin Buf.	n. d.	10 St.	Cloudy; a few drugg. sho.	20					
21	30.072	30.066	41.4	38.9	39.4	38.9	40.0	39.8	E. m.	0.75	E	0.75	00	1 SW	10 thin Buf.	n. d.	10 St.	Cloudy; rather hazy.	21					
22	30.059	30.082	42.0	39.0	39.9	39.8	41.2	41.0	W. m.	0.75	W	0.75	01	1 W	10 Buf.	n. d.	10 St.	Dull and damp.	22					
23	30.159	30.110	41.2	32.2	33.6	32.9	32.2	30.0	W. m.	0.5	SE	1.5	00	0	0	?	2 St.	Fine; mostly sunny.	23					
24	30.036	29.960	32.2	28.2	26.7	25.1	25.0	?	SE	1.0	SW	0.75	00	0	0	0	0	Cloudless; sunny; thick low h. in the evening.	24					
25	29.953	30.055	26.7	21.3	21.6	21.3	24.1	22.8	calm	0	SW	0.5	00	n. d.	10 Fog.	0	0	Thick fog.	25					
26	30.141	30.183	30.0	18.9	23.3	22.3	26.9	26.2	Variable	0.75	Variable	0.75	00	0	0	?	?	Fog chiefly.	26					
27	30.249	30.262	33.0	22.9	24.1	?	20.8	?	Walt	0.5	Walt	0.75	00	n. d.	10 Fog.	n. d.	6 faint St.	Fog till noon; sunny after 12h. 40 m.	27					
28	30.202	30.041	39.0	30.2	32.7	32.1	39.0	36.2	Walt	0.5	W	1.5	01	0.5 W	10 Bu. h.	17 W	9.5 Bu.	Cloudy; low fog; evening clears.	28					
29	29.877	29.806	41.1	34.6	39.1	37.0	38.2	36.3	SW	1.5	S	1.5	00	2.5 W	10 thin Buf.	2 SW	10 Bu.	Cloudy.	29					
30	29.786	29.821	38.2	26.4	31.4	29.1	26.9	25.7	Variable	0.75	calm	0	00	0	0	n. d.	9 faint St.	Fine, sunny; evening hazy.	30					
31	29.939	30.005	35.5	24.1	30.4	29.5	35.1	33.0	E. var.	0.75	SE	1.5	00	1.5 SE	10 thin Buf.	2 SE	10 Buf.	Cloudy; hazy.	31					
Sums.	926.559	926.399	1229.2	98.9	1093.3	1021.6	1069.9	960.7		37.7		34.5	1.15		178		168.1							
Corrected Means.	29.889	29.884	39.7	31.9	35.3	34.1	37.3	35.6		1.2		1.3	1.15		57		52							
No. of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17							

BAROMETER, "corrected Mean"

at 9 h. = 29.889

"Corrected Mean" at 21 h. *O* m. ... = 29.88470 ft. = 29.889
Mean, reduced to 32°, and Sea-level, = 29.886Highest corrected Reading at 21h. ... = 30.262
Universal Time, on the 27th. ...Lowest corrected Reading at 11h. ... = 29.143
Universal Time, on the 11th. ...

Difference, or Monthly Range, ... = 1.119

S. R. THERMOMETERS

(in shade, &c.)

Highest in Month (corrected for Index Errors) on the 11th. ... = 55.0

Lowest in Month (corrected for Index Errors), on the 26th. ... = 18.9

Difference, or Monthly Range, ... = 36.1

"Corrected Mean" of all the Highest, (Col. 3), ... = 39.7

"Corrected Mean" of all the Lowest, (Col. 4), ... = 31.9

Difference, or Mean Daily Range, ... = 7.8

Calculated Mean Temperature of Month, = 35.8

HYGROMETER, "Corrected"

Mean "of 9 h. and 21 h. Reading of Dry Bulb (Cols. 5 and 7), ... = 36.3

"Corrected Mean" of 9 h. and 21 h. Reading of Wet Bulb (Cols. 6 and 8), ... = 34.8

Computed Temperature of Dew-Point, ... = 32.6

Do. Elastic Force of Vapour, ... = 24.5

Relative Humidity (Saturation = 100), ... = 2.13

RAIN fell on 16 Days; Amount, ... = 1.15 Inches

WIND.	SUMMARY.									
	N	NE	E	SE	S	SW	W	NW	Calm or Variable.	Mean Force.
9 h.		2	3	1	3	1	7		4	12
21 h.		2	4	1	6	2	1	4	13	
Mean.	1	1	4	1	2	3	1	5	0	12.5 = 1.56

NOTATION USED IN GENERAL REMARKS.

a.	denotes aurora.	m.	denotes meteor.
ci.	" cirrus.	ms.	" meteors.
ci-cu.	" cirro-cumulus.	n.	" nimbus.
ci-st.	" cirro-stratus.	r.	" rain.
cu.	" cumulus.	h. r.	" heavy rain.
cu-f.	" cumulo-form.	c. h. r.	" continued heavy rain.
cu-st.	" cumulo-stratus.	st.	" stratus.
d.	" dew.	sc.	" scud.
f.	" fog.	sl.	" sleet.
fr.	" frost.	s.	" snow.
h. fr.	" hoar-frost.	so. ha.	" solar halo.
h.	" haze.	sq.	" squall.
h. d.	" heavy dew.	sgs.	" squalls.
hl.	" hail.	t.	" thunder.
l.	" lightning.	t. s.	" thunder storm.
li. cl.	" light clouds.	w.	" wind.
li. sh.	" light showers.	g.	" gale of wind.
lu. co.	" lunar corona.	n. d.	" not discernible.
lu. ha.	" lunar halo.		

TABLE FOR ESTIMATING FORCE OF WIND.

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

* Where an asterisk appears in Columns 3 and 4, the Highest Temperatures for the 24 hours (preceding 21 h.) were registered during the Night, and the Lowest Temperatures during the Day.

† These Hygrometrical Deductions are calculated from Glaisher's Hygrometrical Tables, Sixth Edition.

Observations made and Return verified by

Greatest daily Range

= 17.4 in 10th (Signed)

James Polam & George Redpath.