

Meteorology.

—OBSERVATIONS taken at the Montreal Observatory, Lat. $45^{\circ} 31'$ North; Long. $4^{\text{h}} 54^{\text{m}} 11^{\text{sec}}$ West of Greenwich; Height above the level of the sea, 182 feet; for the month of March, 1873, By CHARLES SMALLWOOD, M. D., LL. D., D. C. L.

Days.	Barometer at 32°			Temperature of the Air.			Direction of Wind.			Miles in 24 hours.
	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	
1	30.069	30.018	30.025	29.5	40.2	27.0	W	W	W	161.81
2	.000	29.919	29.876	22.9	38.6	30.6	N	NW	NW	102.90
3	29.824	.718	.732	20.0	32.2	23.0	NE	NE	W	152.94
4	.964	30.082	30.204	12.1	29.2	19.0	N	W	W	81.09
5	30.481	.464	.475	8.0	29.9	18.1	W	W	W	196.88
6	.500	.351	.288	11.8	36.8	24.5	W	SW	SW	162.42
7	.201	.051	29.932	23.9	40.2	36.1	W	SW	S	142.54
8	29.654	29.460	.352	36.5	37.5	34.5	S	S	W	198.08
9	.451	.601	.790	24.4	31.0	26.0	W	W	W	83.67
10	.868	.880	.951	21.6	43.5	29.6	NE	NNE	NNE	180.23
11	.700	.512	.524	26.0	30.5	33.2	SE	S	W	158.15
12	.700	.749	.876	26.6	42.6	32.0	W	W	W	129.23
13	.981	30.021	.912	25.0	43.5	35.5	W	W	W	68.34
14	30.040	.162	30.251	29.7	43.2	34.4	W	NW	W	67.34
15	.173	29.921	29.566	30.0	33.7	35.0	W	SW	SW	34.98
16	29.161	.298	.576	35.1	27.6	26.9	W	W	W	324.02
17	.862	30.010	30.120	22.5	38.1	32.2	WN	NW	NW	173.05
18	30.000	29.914	29.724	22.0	32.1	30.0	NW	S	E	80.34
19	29.621	.797	.886	26.9	37.0	33.0	NE	W	W	60.03
20	.832	.780	.700	26.5	40.0	33.0	NE	NE	NE	73.13
21	.274	.163	.270	24.1	34.0	26.0	NE	NE	NE	137.85
22	.400	.487	.671	25.0	36.7	29.0	N	W	W	95.98
23	.648	.411	.383	26.5	36.5	32.9	W	W	W	156.42
24	30.000	30.092	30.100	5.0	27.2	14.6	W	W	W	132.16
25	.184	.081	.014	8.1	20.0	18.0	NE	NE	NE	111.53
26	29.674	29.404	29.311	18.2	20.8	17.0	NE	NE	NE	221.12
27	.712	.916	30.061	15.0	28.2	15.0	W	W	W	161.42
28	30.150	30.000	29.890	14.9	36.4	32.0	W	S	S	66.84
29	29.624	29.316	.001	35.0	36.0	36.0	S	S	S	157.36
30	28.850	.162	.398	35.0	40.9	30.5	N	N	W	179.83
31	29.468	.491	.611	31.9	36.0	33.0	W	NE	W	107.47

REMARKS.—The highest reading of the Barometer occurred at 2 a. m. of the 7th day, and indicated 30.527 inches; the lowest reading

was at 5 a.m. of the 30th day, and was 28.800 inches, giving a monthly range of 1.727 inches. The mean reading of the month was 29.792 inches

The highest Temperature was on the 14th day, $45^{\circ} 2$, and the lowest on the 28th day, was $4^{\circ} 3$ giving a range or climatic difference of $40^{\circ} 9$. The mean temperature of the month was $28^{\circ} 64$.

Rain fell on 5 days amounting to 1.786 inches. Snow fell on 15 days, amounting to 33.49 inches.

—OBSERVATIONS taken at Halifax, N. S., during the month of March, 1873; Lat. $44^{\circ} 39'$ North; Long. $63^{\circ} 36'$ West; height above the Sea, 125 feet, By Sergt. John Thurling, A. H. Corps.

Barometer, highest reading on the 6th	30.290 inches.
" lowest " " 4th	28.893
" range of pressure	1.397
" mean for month (reduced to 32°)	29.619
Thermometer, highest in shade on the 31st	51.3 degrees.
" lowest " " 6th	4.8
" range in month	46.5
" mean of all highest	39.2
" mean of all lowest	20.9
" mean daily range	18.3
" mean for month	30.0
" highest reading in sun's rays	109.6
" lowest on the grass	Covered with snow.
Hygrometer, mean of dry bulb	32.8 degrees.
" mean of wet bulb	30.6
" mean deduced dew point	26.2
" elastic force of vapour	.142
" weight of vapour in a cubic foot of air	1.7 grains.
" weight required to saturate do	0.5
" the figure of humidity (Sat. 100)	76
" average weight of a cubic foot of air	557.4 grains.
Wind, mean direction of, North	11.25 days.
" " East	3.25
" " South	5.75
" " West	10.25
" " Calm	0.50
" daily force	2.5
" daily horizontal movement	249.6 miles.
Cloud, mean amount of (0-10)	6.3
Ozone, mean amount of (0-10)	3.3
Rain, number of days it fell	6
Snow, number of days it fell	14
Amount collected on ground	3.96 inches.
Fog, number of days	2

SYNOPSIS of Temperature, Cloud and Precipitation for the Month of February, 1873, compiled at the Toronto Observatory, from observations in the several Provinces of the Dominion of Canada :—

PROVINCE.	ONTARIO.			QUEBEC.		N. SCOTIA.	NEW BRUNSWICK.		MANITOBA.	B. COLUMBIA
STATION.	TORONTO.	OTTAWA.	LITTLE	MONTREAL.	QUEBEC.	HALIFAX.	ST. JOHN.	FREDERIC-	WINNIPEG.	SPENCE'S
Hours from which means are derived.	6 & 8 A. M. 2, 4, 10 & Mid-Night.	7 A. M. 7 & 9 P. M.	CURRENT 7 A. M. 2 & 9 P. M.	7 A. M. 2 & 9 P. M.	Highest & Lowest.	Tri-Hourly	6 A. M. 2 & 10 P. M.	TON. 7 A. M. 2 & 9 P. M.	Tri-Hourly	BRIDGE. 7 A. M. 2 & 9 P. M.
Mean temperature.....	21° 51	14° 63	11° 30	18° 49	11° 02	20° 58	19° 04	15° 40	2° 45	27° 50
Warmest day.....	4	28	7	19	28	8	4	27	26	20
Temperature.....	34.58	31.00	31.60	36.22	25.00	35.47	32.30	30.83	23.14	43.80
Coldest day.....	1	1	1	1	14	2	2	2	21	1
Temperature.....	3.28	-7.60	-9.80	0.12	-4.50	-1.11	-1.00	-6.35	-23.93	-4.10
Mean of Daily Maxima.....	27.09	25.11	21.93	26.41	22.00	30.52	26.43	23.50	13.16	"
Mean of Daily Minima.....	10.02	3.75	0.07	9.19	0.04	10.50	10.39	3.04	-8.41	"
Highest Temperature.....	43.0	42.8	45.5	44.1	34.00	43.3	38.0	36.0	36.5	48.0
Date.....	4	19	8	6	27	8	9	27	16	6
Lowest Temperature.....	-10.5	-18.7	-22.5	-10.3	-20.00	-12.0	-10.0	-22.0	-38.5	-10.0
Date.....	2	2	23	2	2	3	2	2	21	1
Percentage of Cloud.....	59	63	49	14	50	57	59	55	64	34
Depth of Rain in inches...	0.000	0.000	0.000	0.092	0.000	0.490	0.610	0.000	0.000	0.000
No. of days on which rain fell.....	0	0	0	2	0	3	1	0	0	0
Depth of snow in inches...	10.4	45.5	16.5	16.61	27.5	10.7	14.25	33.5	21.2	inapp.
No. of days on which snow fell.....	11	7	4	10	12	14	11	11	12	2
Total depth of Rain and melted snow.....	1.040	4.550	1.650	1.753	2.750	1.560	2.235	2.600	2.120	inapp.
Days without rain or Snow	17	21	24	17	16	14	17	17	16	26