

MONTHLY METEOROLOGICAL REGISTER AT H.M. MAGNETICAL OBSERVATORY, TORONTO, C. W.,—FEBRUARY, 1848.
 Latitude 43°. 39' 4. N. Longitude 79°. 21' 5. W. Elevation above Lake Ontario, 108 Feet.—(For the Brit. Amer. Jour. of Med. and Phys. Science.)

DAY.	Barometer at Temp. of 32°.			Temperature of the Air.			Tension of Vapour.			Humidity of the Air.			Wind.			Inches on Therm.	WEATHER.					
	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.							
1,	29.258	29.328	29.427	29.354	27.0°	28.8°	17.6°	24.50	0.97	1.00	0.92	1.01	.64	.63	.91	75	SW by W	W.	Calm.	—	Orzest till 5 p.m. Clear from 6 pm	
2,	29.428	29.418	29.408	29.417	21.2	35.8	31.4	31.27	1.10	1.42	1.66	1.52	.94	.68	.95	.87	SW by W	E.	Calm.	—	Gen clear. Light clouds occur. Fine	
3,	29.406	29.398	29.365	29.377	27.0	40.2	28.6	32.01	1.44	1.69	1.42	1.53	.68	.88	.90	.86	S. S. W.	S. S. W.	Calm.	—	Light pass. clds. Gen cfr. Very fine	
4,	29.198	29.952	29.964	29.014	38.0	36.7	32.0	33.85	1.62	2.04	1.70	1.71	.87	.95	.95	.87	E. by N.	E.	W N W	W N W	—	Cl. Slight r'n moon to 7 pm. Snowing
5,	29.977	29.903	29.079	29.143	27.6	27.6	24.2	25.57	1.25	1.17	1.14	1.13	.81	.77	.85	.80	W by N.	W by N 1.0	W N W	W N W	0.5*	Gen cfr. Slight snow 7 am to 3 pm.
6,	29.211	29.260	—	29.260	26.0	28.4	—	—	1.26	1.20	—	—	.87	.75	—	.80	WNW 1.5	NNW 2.0	W N W	W N W	0.1	Clouded. Slight showers of snow occur.
7,	29.561	29.589	—	29.560	21.6	26.6	18.8	—	0.95	1.12	0.87	0.92	.79	.77	—	.78	NW 2.0	N. N.	N. by E.	not ap	Gen cfr. Six showers of snow occur.	
8,	29.495	29.671	29.766	29.766	19.5	27.4	25.7	21.46	0.95	1.12	0.87	0.92	.79	.77	—	.78	NW 2.0	N. N.	N. by E.	not ap	Cl. till 11 am. Rem. clear. Aurora!	
9,	29.757	29.417	29.486	29.553	22.4	33.8	31.2	25.7	0.93	1.09	1.13	1.09	.86	.76	—	.73	W. by E.	E S E	Calm.	—	Light N. 9 to midnight.	
10,	29.682	29.789	29.982	29.875	18.7	16.8	12.4	23.60	1.09	1.24	1.28	1.20	.87	.64	—	.79	SSW 3.0	SSW 3.0	NW by W	not ap	Clouded all day. Aur light at midn.	
11,	30.117	30.063	30.010	30.056	0.2	14.4	12.8	12.39	0.85	0.77	0.71	0.68	.81	.79	—	.86	N by W 1.5	N. 1.5	N. by E.	—	Gen overcast. Light passing clouds.	
12,	30.023	30.021	30.039	29.938	13.8	25.0	14.7	10.88	0.44	0.50	0.63	0.57	.93	.56	—	.82	N. N. E.	N E by E	N. N. E.	—	Gen cfr. L'c clds dispers. Parts of sn	
13,	29.985	29.841	—	29.841	20.4	31.7	—	20.53	0.72	0.94	0.85	0.91	.82	.68	—	.79	N. N. E.	S. S. E.	Calm.	—	at 9 to 11 pm.	
14,	29.625	29.570	29.657	29.657	18.2	38.1	29.1	10.11	0.98	1.35	1.32	1.23	.94	.59	—	.81	Calm.	S. E. by S.	S. by S.	Calm.	—	Cloudy till noon. Cfr from 1 pm. Fine.
15,	29.842	29.821	29.787	29.804	18.8	31.0	23.3	29.35	0.98	1.35	1.32	1.23	.94	.59	—	.81	Calm.	N E by N.	N. by S.	Calm.	—	Gen overcast. Light clouds. Fine.
16,	29.747	29.710	29.700	29.711	24.6	35.1	25.0	24.76	1.02	1.10	1.03	1.01	.78	.63	—	.74	N. by W.	S. W. by S.	N. by S.	Calm.	—	Cfr. A few pt pass clds. Very fine
17,	29.698	29.783	29.800	29.761	20.7	35.4	25.2	28.18	1.07	1.15	1.16	1.16	.74	.72	—	.82	N. by W.	S. E. by S.	S. by S.	Calm.	—	Cfr. Aur light 0 to 1 am. Very fine
18,	29.846	29.788	29.794	29.787	20.8	36.7	29.2	27.83	0.99	1.43	1.34	1.29	.93	.74	—	.83	Calm.	S E by E.	S E by E.	Calm.	—	Clear, save a few clds 5 to 9 am. Fine
19,	29.600	29.434	29.306	29.355	31.1	37.4	37.4	30.83	0.99	1.43	1.60	1.41	.84	.66	—	.99	S. E. by F.	S. S. E.	Calm.	—	Clear, save a few clds 1 to 5 am. Fine	
20,	29.957	29.897	—	29.897	35.9	41.2	—	36.26	1.63	1.70	1.51	1.62	.94	.77	—	.68	E. by S.	E. by N.	E.	—	Cfr. till 4 am. Day cfr. Six r'n 5 pm	
21,	29.356	22.558	29.619	29.547	36.4	46.6	36.0	38.02	1.47	1.33	1.52	1.45	.69	.41	—	.72	E. by N.	S. W.	S W by S.	—	Densely overcast. Slight rain am.	
22,	29.601	29.468	29.470	29.518	31.0	36.4	32.0	33.88	1.58	1.98	1.71	1.75	.69	.93	—	.91	W 1.5	W.	W.	—	Part cfr. Brilliant aurora 8 to 10 pm	
23,	29.588	29.677	29.761	29.715	29.3	33.2	26.6	29.97	1.47	1.35	1.31	1.28	.91	.71	—	.89	W N W.	NNW 1.0	N. N. W.	—	Part cfr. Slight rain from 8 to 6 pm	
24,	29.890	29.874	29.987	29.954	22.9	32.6	22.0	22.90	0.85	1.10	0.81	0.69	.67	.66	—	.70	N. N. W.	NNW 1.0	N. N. W.	—	Slight snow 7 to 9 pm	
25,	30.109	30.053	30.015	30.041	11.1	32.2	15.7	17.19	0.79	0.92	0.87	0.83	.76	.75	—	.93	N. E.	S by E.	N. N. W.	—	Part cfr. Aur light 9 & 10 pm	
26,	29.920	29.656	29.614	29.698	12.6	33.6	29.2	17.19	0.58	0.92	0.87	0.83	.76	.75	—	.77	SE by E	S by E.	Calm.	—	Gen cfr. Aur light 9 & 10 pm	
27,	29.645	29.666	—	29.666	25.5	30.0	—	—	1.20	1.44	—	—	.86	.85	—	.79	N. W.	E N E	N. W.	—	Mostly clear. Rem of day m'ly cfr	
28,	29.467	29.165	29.173	29.242	28.0	35.4	31.0	29.88	1.20	1.32	1.52	1.43	.77	.58	—	.85	S. S. E.	W S W	N by W.	—	Cloudy till 8 am. Rem of day m'ly cfr	
29,	29.304	29.423	29.561	29.465	29.4	22.1	13.6	18.09	1.04	0.79	0.71	0.86	.91	.65	—	.83	NW by W	NNW 2.5	Calm.	—	Den cfr. Str 7 am to 2 pm & fr 8 to midn	
Mean	29.620	29.585	29.609	29.608	25.32	31.44	24.99	26.98	1.07	1.29	1.20	1.19	.84	.71	—	.85	—	—	—	—	10.8	Snow squalls till 1 pm. M'ly cfr fr 2 pm

Barometer, 30.160 at 10 a.m. on 11th. Highest do. 28.897 at 3 p.m. on 20th. Lowest do. 29.211 on 11th. at 7 a.m. Monthly Range 1.263
Temperature, 40° on 21st, 3 pm. Highest do. 46.6 on 11th. at 7 a.m. Monthly Range 46.6
Mean Max. Therm., 33.05—Mean Min. Therm., 20.27.
Mean Daily Range, 13.78
Extreme Daily Range, 25.6 from 3 am to 5 pm on 25th.
Warmest Hour, 2 pm, Mean temp., 32.01 & Differ., 9.69
Colest do., 7 am, Mean temp., 22.32 & Differ., 9.69

Proportion of Wind from each Quarter—
 N.W. 1.67
 S.W. 66
 S.E. 66
 N.E. 108
Total, 399
Mean Force of the Wind, 0.47 lbs per sq. ft.
Maximum force, 6.6 lbs on 6th. at 5h 20m pm.
Greatest Day's Wind, 23d.—**Mean Force**, 1.33 lbs.
Least do., 3d. 0.03 lbs.

Temperature for February.
 Mean, 29.09
 Max., 44.1
 Min., -1.3
 Range, 45.4
 No. Days, 8
 Inches, 1.475
 Winds, 198
 Gales, 80
 Mean Day In., 9
 Dot per, 188
 3.625
 402
 33.4
 332
 222
 330
 89
 0.775

Rain.
 No. Days, 8
 Inches, 1.475
 Winds, 198
 Gales, 80
 Mean Day In., 9
 Dot per, 188
 3.625
 402
 33.4
 332
 222
 330
 89
 0.775

Under the head of Tension of Vapour, is given the elastic force of the Aqueous Vapour in the Atmosphere at each Observation, in decimals of an inch of Mercury, or the proportion of the Barometric pressure due to its presence. The Instruments are Standard Instruments. The Rain Gauge is 27 feet above the soil.—The Means entered are the Means by 24 hourly Observations, from 6 a.m. to 6 a.m.—The quantity of Rain received for the last 24 hours, is noted at 9 a.m.—The Observations entered at 7 a.m., on Sunday, are actually taken at 9 a.m. The two Observations taken on Sundays are not included in any of the means.

MAGNETIC DISTURBANCES.—FEBRUARY 21st, 1h 50m, to 18h, very remarkable, the great deviation of the magnet being to the East. Easterly deviation, 29° 50'. Total range 3° 31'. 21st, 19h to 21h, slight, 23°. 6' decl. 23d, 16h, to 24h, 0h, (at intervals of 15m), slight, 89°. 7' decl. 24th, 20h, to 25th, 0h, slight, 38°. 3' decl. Rain in inches on surface on the 6th, 0.410; 20th, 0.270; 21st, 0.020; 23d, 0.075—Total, 0.775.