

Monthly Meteorological Register, Quebec, Canada East—December, 1853.

BY LIEUT. A. NOBLE, R.A.

Latitude, 46 deg. 49.2 min.; Longitude, 71 deg. 16 min. Elevation above the level of the Sea, — Feet.

Date.	Barometer corrected and reduced to 32 degree, Fahr.		Temperature of Air.			Elasticity of Air.			Humidity of Air.			Direction of Wind.			Velocity of Air.			Rain in inch.	Snow in inch.	REMARKS				
	MEAS.		MEAS.			MEAS.			MEAS.			MEAS.			MEAS.									
	6 A.M.	10 P.M.	6 A.M.	10 P.M.	6 P.M.	6 A.M.	10 P.M.	6 P.M.	6 A.M.	10 P.M.	6 P.M.	6 A.M.	10 P.M.	6 P.M.	6 A.M.	10 P.M.								
1	29.950	29.914	29.910	29.926	23.2	24.0	23.4	.111	.093	1.29	1.11	.87	.73	.95	.85	N E	E N E	15.2	11.4	8.	...	...	...	1st. At about 11 1/2 a.m. light cirrus clouds at a great elevation; at 1.5 to the meridian. Aurora visible.
2	.963	.919	.865	.895	23.0	20.0	19.8	.095	.090	.092	.093	.85	.80	.87	.84	N E	E N E	13.9	12.4	14.3	3.0	...	...	2nd. A very faint Aurora.
3	.767	.792	.740	.755	20.0	23.3	20.4	.082	.120	.092	.098	.90	.93	.81	.88	E N S	E N E	11.4	10.9	6.2	...	...	...	3rd. Showing from 12 1/2 to 7 1/2 p.m. Aurora visible.
4	.879	.914	30.040	.954	4.4	9.0	6.3	.017	.031	.040	.046	.76	.66	.75	.73	N W	N W	10.9	8.8	8.	...	...	...	4th. A good Aurora appeared at 6, still visible at 11.
5	30.054	30.057	.055	30.055	20.3	12.0	23.6	.092	.119	.136	1.16	.81	.88	.96	.88	E	E S S	10.1	11.4	10.1	...	...	...	6th. Showed 1 1/2 p.m. to 10 1/2 p.m.
6	29.929	29.693	29.349	29.627	20.3	21.5	25.0	.092	.112	.106	.075	.908	.94	.83	.97	N S	N S W	6.2	3.8	8.	...	...	...	7th. A very faint Aurora.
7	.474	.814	.805	29.698	21.6	25.1	17.0	.089	.108	.117	1.05	.91	.83	.97	.80	N S	N S W	5.2	3.8	3.8	...	...	...	8th. Showed from 5 1/2 a.m. to 2 p.m.
8	.930	.868	.849	.882	16.8	23.5	21.6	.111	.125	.156	1.45	.81	.77	.87	.83	W	W S W	3.8	3.8	3.8	...	...	...	12th. Aurora visible at 6 a.m., not visible previously.
9	.734	.789	.748	.757	27.0	35.0	31.1	.125	.156	.156	1.45	.81	.77	.87	.83	W	W S W	3.8	3.8	3.8	...	...	...	13th. cirrus clouds l.s. to meridian at 2 p.m.
10	.755	.766	.766	.762	22.5	37.6	35.3	.14	.166	.180	1.75	.74	.91	.88	.98	N S	N S W	19.7	11.4	13.9	...	...	...	14th. Lunar halo 60° in diameter at 6 o'clock p.m.
11	.765	.805	.862	.820	30.8	32.8	29.6	.11	.150	.163	1.41	.93	.88	.98	.90	N S	N S W	3.8	3.8	3.8	...	...	...	15th. At 1 p.m. cirrus clouds at l.s. to meridian.
12	.874	.853	.857	.861	26.5	35.6	31.7	.100	.162	.158	1.53	.96	.78	.89	.88	Calm	E	...	...	...	...	...	...	22nd. Sky covered with clouds, but in the north a dark arch, and a glow above it; thought it might be Aurora.
13	.855	.974	30.016	.958	30.2	32.0	17.0	.162	.171	.091	1.11	.96	.95	.92	.91	Calm	E N S	...	...	...	...	...	...	Observed this about 9 p.m.
14	30.006	.850	29.762	.873	10.3	24.8	21.3	.051	.116	.113	.093	.96	.85	.81	.79	Calm	N W	...	...	...	...	...	...	30th. Lower stratum of clouds moving; with the wind E.N.E. Up- per stratum S.S.E.
15	29.760	.817	.770	.782	25.6	33.0	30.2	.096	.121	.156	1.46	.84	.87	.83	.85	N S	N S W	6.2	5.2	3.8	...	...	...	...
16	.703	.648	.673	.651	30.5	35.2	36.3	.140	.185	.198	1.41	.97	.85	.90	.91	Calm	W S W	...	...	...	...	...	...	...
17	.494	.422	.341	.419	30.3	38.5	29.0	.036	.029	.041	1.75	.97	.85	.90	.91	E N E	E N S	...	...	...	...	...	...	...
18	28.863	28.844	.127	28.934	27.5	24.2	11.5	.137	.112	.058	1.02	.90	.84	.75	.83	N W	N W	...	...	...	...	...	...	...
19	30.451	29.917	.650	29.697	-2.5	4.4	-6.5	.029	.021	.031	.027	.63	.67	.86	.76	N W	N W	...	...	...	...	...	...	...
20	.857	.991	30.048	.995	-17.8	-1.8	-10.2	.026	.053	.017	.012	.63	.79	.79	.74	N S	N S W	...	...	...	...	...	...	...
21	30.078	30.093	30.056	30.077	-3.0	7.8	5.0	.026	.053	.017	.012	.63	.79	.79	.74	N S	N S W	...	...	...	...	...	...	...
22	29.991	29.917	29.882	29.931	10.3	15.8	18.0	.030	.082	.089	.077	.80	.87	.87	.85	E N E	E N S	...	...	...	...	...	...	...
23	.648	.956	.102	.339	20.8	27.5	23.7	.114	.119	.132	1.22	.97	.91	.87	.93	E N E	E N S	...	...	...	...	...	...	...
24	.044	.101	.106	.081	21.6	13.5	3.5	.108	.109	.071	.041	.83	.95	.95	.90	N W	N W	...	...	...	...	...	...	...
25	.284	.401	.498	.395	4.3	15.8	15.5	.048	.087	.088	.074	.83	.95	.95	.90	N W	N W	...	...	...	...	...	...	...
26	.451	.355	.369	.393	10.5	20.5	21.0	.173	.095	.096	.098	.68	.85	.88	.80	E N E	E N S	...	...	...	...	...	...	...
27	.421	.386	.346	.384	22.5	23.1	11.5	.108	.122	.063	.098	.96	.96	.79	.90	N W	N W	...	...	...	...	...	...	...
28	.331	.621	.611	.488	4.5	6.2	-2.5	.045	.058	.021	.011	.77	.95	.48	.73	W S W	N S W	...	...	...	...	...	...	...
29	.522	.322	.082	.309	-8.0	3.2	2.0	.029	.017	.016	.039	.88	.84	.77	.83	Calm	N S W	...	...	...	...	...	...	...
30	.197	.449	.580	.408	-3.5	6.0	1.0	.12	.029	.013	.015	.939	.71	.90	.77	N W	N W	...	...	...	...	...	...	...
31	.492	.530	.735	.685	9.8	14.2	13.6	.062	.083	.068	.072	.85	.96	.79	.87	N W	E S E	...	...	...	...	...	...	...
	29.650	29.653	29.650	29.652	15.3	20.1	16.8	.091	.103	.093	.090	.83	.81	.83	.81			4.3	7.3	6.9	0.0	37.3		

Greatest Daily Range 30° 0 on the 18th.
Least Daily Range 9° 5 on the 2d.
Warmest Day, the 10th 31° 4 } Climatic Difference, 44° 2.
Coldest Day, the 29th -10 2 }
Possible to see Aurora on 11 nights.
Aurora actually visible on 9 nights.

Highest Barometer, at 2 p.m. on the 21st 30.059 } Monthly Range, 1.251 in.
Lowest Barometer, at 2 p.m. on the 18th 28.811 }
Maximum Thermometer, on the 17th 38.5 } Monthly Range, 56° 5.
Minimum Thermometer, on the 29th -18.0 }
Mean Maximum, Thermometer, 22.4 } Mean Daily Range, 12° 3.
Mean Minimum, Thermometer, 10.1 }