

two parhelia or mock suns; these were in their usual places in two intersections of the halo; in each parhelia the colours were prismatic. Higher in the heavens, touching the halo, was an arch of an inverted rainbow; and still higher, with the prismatic colours much more vivid, was another inverted arch. These two inverted arches were as distinct in colours as the common rainbow, but not of the same breadth. There were various other circles not well defined. Verging towards the North was a third parhelia, not consisting of prismatic colours, and in which we could not trace the intersecting circles distinctly. The clouds in the North were at the same time tinged with red. The parhelia lasted more than an hour."

*Extraordinary Length of Wire from one Piece of Metal.*—A remarkable specimen of the ductility of copper was manufactured last week at Mr. Walker's mills, Fazeley-street. The metal referred to weighed about 123 lbs., which was drawn out to a length of upwards of four miles, and is to be laid down as a line of telegraph without link or weld.

A method has lately been introduced in Prussia of printing books on linen prepared for the purpose. It is the invention of an apothecary named Sanger, of Berlin, and is found very admirable in large schools for the poor. The appearance of the book is by no means injured, and the price is the same as if printed on paper.

**Monthly Meteorological Register, at Her Majesty's Magnetical Observatory, Toronto, Canada West.—May, 1853.**

*Latitude 43 deg. 39.4 min. North. Longitude, 79 deg. 21 min. West. Elevation above Lake Ontario: 108 feet*

Magnetical Day	Barom. at tem. of 32 deg.				Temperature of the air					Tension of Vapour				Humidity of Air.				Wind.			Rain, S'w	
	6 A.M.	2 P.M.	10 P.M.	MEAN	6 A.M.	2 P.M.	10 P.M.	M'N	6 A.M.	2 P.M.	10 P.M.	M'N	6 A.M.	2 P.M.	10 P.M.	M'N	6 A.M.	2 P.M.	10 P.M.	m	m	
b 1	30.074	30.071	29.761		37.0	43.8			0.191	0.193			87	69			NE b N	ESE	E b N	--	--	
b 2	29.963	29.877	29.701	29.851	39.1	46.9	44.6	43.90	0.179	0.170	0.174	0.176	75	55	60	62	E b N	E b N	E b N	0.005	--	
b 3	683	662	701	682	46.3	50.3	48.4	48.72	235	244	278	275	75	50	83	82	Calm.	Calm.	Calm.	--	--	
b 4	748	718	624	693	48.5	61.4	49.9	53.43	236	353	279	289	70	66	79	71	Calm.	S b E	Calm.	0.055	--	
b 5	691	471	559	534	49.6	50.6	47.6	49.33	327	349	289	311	94	96	96	92	N	NE b E	NNE	0.400	--	
b 6	53	636	695	643	44.2	51.9	43.8	48.22	218	271	213	221	76	64	86	76	N b E	SE b E	E b N	--	--	
b 7	688	503	285	474	45.5	52.5	44.2	48.53	233	290	272	276	69	75	94	82	NE	NE b E	ENE	0.160	--	
b 8	233	213			47.4	56.0			294	388			91	88			E b S	W b S	W	--	--	
b 9	390	354	373	371	42.0	49.8	46.3	47.08	238	278	293	283	90	79	94	90	Calm.	E b S	S	0.065	--	
b 10	462	489	597	523	47.8	51.6	44.5	48.15	303	246	243	279	93	77	84	84	SSW	SSW	NW	0.200	Inap.	
b 11	706	710	635	681	38.9	51.7	45.0	46.40	219	272	230	242	93	72	75	75	N b W	S b E	E b S	0.345	--	
b 12	453	575	742	609	42.1	47.4	39.2	42.80	243	285	188	21	92	88	79	84	N b E	N	Calm.	0.045	--	
b 13	851	817	818	837	40.8	53.4	42.0	46.55	193	237	213	234	76	59	81	74	Calm.	S b E	N	--	--	
b 14	880	837	764	819	43.5	62.0	47.2	51.72	198	302	241	271	72	56	76	72	Calm.	SSW	Calm.	--	--	
b 15	706	551			47.0	50.6			275	345			87	95			Ca m.	Calm.	—	0.135	--	
b 16	493	418	572	500	55.4	69.9	57.4	62.02	365	467	357	410	85	66	77	75	SSW	SSW	Calm.	--	--	
b 17	689	617	689	670	52.8	59.6	50.3	55.10	347	466	341	387	83	93	95	90	Calm.	S E	N	0.225	--	
b 18	794	633	361	511	41.2	43.7	44.5	43.88	277	262	270	266	90	93	93	92	N b E	E b N	E b N	0.975	--	
b 19	311	369	660	469	45.0	42.4	38.5	41.23	273	252	141	211	92	94	87	93	S b E	NW	NW	0.130	--	
b 20	544	518	488	510	39.1	56.0	44.8	47.60	196	261	232	239	83	60	79	71	NW b W	W b N	Calm.	--	--	
b 21	413	261	210	297	48.2	65.4	56.4	56.70	269	404	362	347	80	67	81	77	W	SW b S	SW	0.095	--	
b 22	283	285			53.4	56.2			377	409			91	93			Calm	E b N	—	1.400	--	
b 23	262	469	585	455	51.7	57.1	46.7	52.22	345	305	235	307	91	67	74	80	Calm	W b S	W b N	--	--	
b 24	672	711	766	717	44.5	51.3	47.1	47.75	243	280	268	267	84	75	84	82	W b N	SSW	NW	--	--	
b 25	746	664	604	666	48.1	57.7	54.8	53.43	275	377	374	335	83	81	90	83	N	NW	N	0.005	--	
a 26	493	403	461	444	52.4	58.9	53.1	55.97	356	399	377	379	92	82	96	91	NNW	NNW	W	0.170	--	
a 27	548	579	609	582	55.5	69.3	59.2	62.12	368	452	380	410	95	63	77	76	N b W	NW b N	SW	--	--	
b 28	613	591	570	594	60.7	71.4	59.2	65.07	453	501	377	456	87	67	77	76	SW	SSE	Calm.	--	--	
b 29	599	539			55.4	71.1			365	448			85	60			Calm	S b E	—	--	--	
b 30	263	414	726	490	40.5	63.2	48.8	56.00	441	343	229	317	86	60	68	70	Calm	NW	NW b N	0.010	--	
c 31	864	876	814	852	45.1	54.9	43.4	43.89	211	309	215	241	72	73	77	73	NW b N	E b S	ENE	--	--	
M	29.603	29.583	29.605	29.598	47.4	55.88	47.83	50.7	0.278	0.325	0.274	0.297	84	73	82	80	M'N 3.62	M'N 8.12	M'N 2.55	4.420	Inap	

Sum of the Atmospheric Current, in miles, resolved into the four Cardinal directions.

North.	West.	South.	East.
1489.22	1331.98	840.17	1101.65

Mean velocity of the wind - - - 5.14 miles per hour.  
 Maximum velocity - - - 21.0 mi's per hr., from 2 to 3 p.m. on 30th.  
 Most windy day - - - 19th: Mean velocity, 10.77 miles per hour.  
 Least windy day - - - 3rd: Mean velocity, 0.33 ditto.

The column headed "Magnet" is an attempt to distinguish the character of each day, as regards the frequency or extent of the fluctuations of the Magnetic declination, indicated by the self-registering instruments at Toronto. The classification is, to some extent, arbitrary, and may require future modification, but has been found tolerably definite as far as applied. It is as follows:—

- (a) A marked absence of Magnetical disturbance.
- (b) Unimportant movements, not to be called disturbance.
- (c) Marked disturbance—whether shewn by frequency or amount of deviation from the normal curve—but of no great importance.
- (d) A greater degree of disturbance—but not of long continuance.
- (e) Considerable disturbance—lasting more or less the whole day.
- (f) A Magnetical disturbance of the first class.

The day is reckoned from noon to noon. If two letters are placed, the first applies to the earlier, the latter to the later part of the trace. Although the Declination is particularly referred to, it rarely happens that the same terms are not applicable to the changes of the Horizontal Force also.

Highest Barometer - - 30.074, at 6 A. M., on 1st. } Monthly range:  
 Lowest Barometer - - 29.213, at 2 P.M., on 8th. } 0.861 inches.  
 Highest observed Temp. - 78.4, at 12½ P.M., on 28th } Monthly range.  
 Lowest regist'd Temp. - 32.2, at A.M., on 13th } 46.2  
 Mean Highest observed Temperature - - 56.74 } Mean daily range:  
 Mean Thermometer Minimum - - - 42.65 } 14.19  
 Greatest daily range - - - 28.4 from noon of 28th, to A.M. of 29th.

Warmest day - - 28th - - - Mean Temperature - 65.07 } Difference:  
 Coldest day - - 19th - - - Mean Temperature - 41.23 } 23.84

The "Means" are derived from six observations daily, viz., at 6 and 8 A. M., and 2, 4, 10 and 12, P. M.

Aurora observed on 3 nights. Possible to see Aurora on 19 nights.  
 Halo round the sun at 5.30 P.M., on the 11th  
 Perfect Double Rainbow at 7.25 P.M., on the 25th. Brilliant colours.  
 The depth of rain for this month is much above the average, and has been exceeded only in two years, 1844-49; but the number of rainy days is the greatest that has been known throughout the whole series of years, being only equalled in August, 1844.

**Comparative Table for May.**

Yr	Temperature.				Rain.		Snow.		Wind. Mean Velocity
	Mean.	Max.	Min.	Range.	D'ys	Inches.	D'ys	Inch.	
1840	53.78	74.5	30.8	43.7	9	4.150	0	--	Miles.
1841	60.77	70.2	26.6	49.6	11	2.350	1	Inap.	--
1842	49.44	74.3	30.0	44.3	7	1.275	0	--	--
1843	49.25	79.6	28.9	50.7	5	1.570	0	--	--
1844	53.80	77.7	29.0	48.7	14	5.670	0	--	--
1845	50.13	76.6	29.4	47.2	8	2.300	0	--	--
1846	55.37	78.1	34.3	43.8	9	4.375	0	--	--
1847	54.92	72.5	27.8	44.7	12	2.040	0	--	--
1848	54.12	78.5	31.9	46.6	13	2.520	0	--	4.93
1849	48.63	72.5	32.7	39.8	16	5.115	0	--	5.33
1850	43.61	76.3	31.1	45.2	7	0.645	1	Inap.	6.32
1851	52.45	73.2	28.7	44.5	12	2.950	1	0.5	6.34
1852	51.67	73.3	34.5	38.8	7	1.125	1	Inap.	4.00
1853	50.87	78.4	33.4	40.0	17	4.420	1	Inap.	5.14
M'n	51.69	75.84	31.01	44.83	10.5	2.886	0.4	--	5.34