MONTHLY METEOROLOGICAL REGISTER, at

Latitude, 43 deg. 39.4 min. N. Longitude, 79 deg. 21.5 min. W.

Mgt.	Day	Barom. at tem. of 32 deg				Temperature of the air.				Tension of Vapour.			
		6, A M	2, P.M.	10 P.M.	MEAN.	6 A.M.	2 P.M.	10 P M	MEAN.	6, A.M.	2, P M	10 P.M.	MEAN.
c	1	29 828	29.767	29 622	29.720	12.6	16.9	20.5	17.10	0 079	0.080	0.104	0.091
a	2	514	699	30.10.	840	15.3	18 5	6 4	1 2 79	065	091	050	067
b	3	30.249	30 310	33	30.305	—3.2	23.2	12 5	12 73	042	107	062	075
b	4	239	29.916	29.705	29.953	12 7	25.9	23 3	20 77	070	123	123	103
b	5	29 600	636	808	692	24 0	31 1	25 3	27 27	123	185	113	134
c	6	824	778	900	844	16.4	29 0	16.6	19.27	076	097	056	077
c-d	7	987	988	.....	.....	—2.9	29 1	....	.....	029	105	....	.....
b	8	758	542	328	511	28 2	31.2	33 7	32.23	136	183	167	161
c	9	28 943	28.900	476	147	35.7	41.5	35 3	37 53	203	240	148	186
c	10	29.777	29 945	31 060	937	29 1	35.7	23.0	28 78	141	109	114	125
a-d	11	30 074	30.024	29.850	981	29.6	33.5	35.2	33 02	150	155	167	161
c	12	29 765	29 706	709	717	36 4	40.0	38.1	38.68	203	215	220	222
d	13	677	575	431	553	38.1	41.8	39.5	39.98	223	283	221	236
c	14	341	167	.....	.....	40 6	39 0	.. ..	.....	247	228	.....	.....
c	15	153	283	355	340	29.9	26 3	32 4	33.87	123	172	174	155
c	16	614	622	474	575	29 5	35.2	32.7	32 45	127	163	151	142
c-d	17	359	337	344	347	33.1	41.6	38.4	37 93	174	201	174	183
c-d	18	391	584	718	583	24 5	27.1	21.2	24.23	121	108	110	113
c	19	777	68	723	731	14.1	26 2	23 0	20.90	072	094	108	085
d	20	709	699	741	715	9 0	21.7	17.2	16.57	059	100	081	074
c	21	623	40	.....	.....	18.0	26.1	....	.. ..	081	128	.....	.....
c	22	443	185	053	210	10 8	27.3	30.7	24 47	072	139	158	128
a	23	28.973	021	082	022	25 8	29 2	23.7	26 78	139	142	102	124
a	24	835	28.603	039	28.871	27 0	33 9	24 1	27.87	120	172	103	125
b	25	29.417	29 445	324	29.410	16.9	30.5	29 4	25 85	073	139	139	116
c	26	222	314	620	402	31.7	35 9	30.8	32.70	154	203	164	171
c	27	800	871	944	877	24 8	39 3	29.6	31.33	114	193	142	136
c	28	30.014	972	.....	.....	28.7	33 5	....	.....	127	143	.....	.....
b	29	29.770	737	838	792	34.9	35.7	31.7	33.18	165	180	115	152
d		719	538	413	541	28.4	25.9	29 4	28.20	095	128	140	124
b		147	210	470	279	34.3	36 7	32.0	33.88	192	208	150	176
Mean	..	29 579	29 561	29 622	29 5898	23 91	31.9	27 75	27.79	0 123	0.157	0.128	0.13

Highest Barometer.....30 332, at 10 p m. on 3rd } Monthly range:
Lowest Barometer.....28.603, at 2 p.m. on 24th } 1.729 Inch.

Highest observed temperature 44 8, at 2p.m. on 13th } Monthly range
Lowest registered " —7.4 at 8 a m. on 3rd } 52.2

Mean highest observed temp. 32 56 } Mean daily range:
Mean minimum Ther. 18.56 } 14.00

Greatest daily range, 34.1, from 4 p m. of 6th to a.m. of 7th.

Warmest day, 13th. Mean temperature, 39 98 } Difference,
Coldest day, 2nd. Mean temperature, 12.70 } 27.28.

The "Means" are derived from six observations daily, viz:—at 6 and 8, a.m.; 2, 4, 10, 12, p. m.

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 declinations 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 disturbance.

(*b*) Unimportant movements,—not to be called disturbance.

(*c*) Marked disturbance,—whether shewn by frequency or amount of deviation from the normal course,—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.

REMARK.—On the 10th of March the ground was found frozen to the depth of twenty-two inches about the middle of the Observatory enclosure. The greatest thickness of rough and clear ice in Toronto bay was about 28 inches.

Toronto, 14th April, 1853.