

MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—OCTOBER, 1846.
 Latitude 43°. 39.4. N. Longitude 79°. 21.5. W. Elevation above Lake Ontario, 108 Feet.

DAY.	Barometer at Temp. of 32°.				Temperature of the Air			Tension of Vapour.			Humidity of the Air.			Wind.			Rain inch on surf.	WEATHER.			
	7 A.M.	3 P.M.	10 P.M.	Mean.	7 A.M.	3 P.M.	10 P.M.	Mean.	7 A.M.	3 P.M.	10 P.M.	Mean.	7 A.M.	3 P.M.	10 P.M.	Mean.			7 A.M.	3 P.M.	10 P.M.
1,	29.491	29.533	29.498	29.5082	51.8°	53.0	47.4°	50.00	2.91	3.16	2.97	2.99	74	77	82	84	N. N. W.	E. by N.	N. E.	—	Densely overcast. Slight dr from 7 pm till 11 pm. Kem. part. dr. Aur light, 3 and 4 pm.
2,	29.470	29.557	29.694	29.6103	46.5	54.0	40.8	45.98	3.88	2.73	3.25	3.62	92	69	83	85	N. by W.	N. N. W.	Calm.	0.070	
3,	29.766	29.675	29.641	29.6888	41.0	54.9	44.6	47.42	2.26	3.16	2.40	2.50	89	74	83	85	Calm.	E. S. S.	Calm.	0.040	
4,	29.675	29.675	29.675	29.675	49.8	55.5	45.5	55.5	3.20	3.80	—	—	91	88	88	88	Calm.	Calm.	Calm.	—	
5,	29.675	29.675	29.675	29.675	49.2	55.5	45.2	55.5	3.20	3.80	—	—	91	88	88	88	Calm.	Calm.	Calm.	—	
6,	29.859	29.753	29.673	29.7448	46.1	61.0	49.2	52.50	2.97	4.19	2.97	3.32	96	72	86	86	N. by W.	S. W.	Calm.	—	
7,	29.693	29.688	29.673	29.7177	62.7	68.0	65.2	63.58	3.75	5.39	5.17	5.00	96	81	87	87	Calm.	S. S. W.	Calm.	—	
8,	29.903	29.940	29.908	29.9010	61.0	68.5	65.2	63.58	3.75	5.39	5.17	5.00	96	81	87	87	Calm.	S. S. W.	Calm.	—	
9,	29.854	29.858	30.029	29.9268	56.5	65.5	42.6	52.57	4.60	3.65	4.53	4.69	98	81	83	86	Calm.	N. E. by E.	Calm.	0.075	
10,	30.132	30.134	30.118	30.0301	38.9	48.3	38.0	44.06	1.84	2.75	2.11	2.52	78	83	94	87	N. N. E.	S. E.	N. N. E.	0.015	
11,	30.053	29.934	29.574	29.5750	44.4	53.1	45.8	52.3	3.18	3.55	—	—	91	72	85	84	S. E.	E. N. E.	Calm.	—	
12,	29.650	29.558	29.146	29.2227	48.8	46.8	43.4	44.55	3.13	3.02	2.35	2.64	91	95	84	90	Calm.	N. by W.	N. by W.	0.405	
13,	29.444	29.414	29.423	29.4237	48.8	52.0	43.7	44.44	1.89	2.57	2.59	2.45	95	67	85	85	Calm.	S. E.	Calm.	1.760	
14,	29.417	29.414	29.423	29.4237	34.5	50.4	41.8	44.20	1.92	1.97	1.91	2.11	87	55	73	74	Calm.	W. by S.	Calm.	not ap	
15,	29.519	29.618	29.680	29.6194	37.2	57.1	46.2	49.75	3.02	4.34	2.44	3.17	90	95	79	87	Calm.	S. E.	Calm.	not ap	
16,	29.489	29.432	29.619	29.5323	48.4	57.9	46.2	49.75	3.02	4.34	2.44	3.17	90	95	79	87	Calm.	S. E.	Calm.	not ap	
17,	29.941	29.818	29.820	29.8263	32.9	35.9	30.4	34.32	1.76	1.72	1.40	1.69	95	82	82	86	N. by W.	N. W. by N.	N. W. by N.	0.150	
18,	29.824	29.756	29.820	29.8263	32.9	35.9	30.4	34.32	1.76	1.72	1.40	1.69	95	82	82	86	N. by W.	N. W. by N.	N. W. by N.	0.150	
19,	29.783	29.739	29.699	29.7189	31.6	47.1	41.5	42.80	1.62	1.81	2.00	2.00	92	57	76	74	Calm.	S. W.	W. S. W.	0.040	
20,	29.694	29.607	29.716	29.6583	44.1	40.3	35.1	39.92	2.68	2.25	1.79	2.13	97	79	88	86	S. by E.	W. by S.	Calm.	0.215	
21,	29.768	29.760	29.765	29.7537	33.0	40.4	36.7	37.92	1.56	1.89	1.76	1.80	88	76	81	79	Calm.	W. by S.	W. S. W.	not ap	
22,	29.581	29.736	29.880	29.7336	37.2	34.9	25.6	30.61	1.95	1.58	1.33	1.51	89	78	94	87	S. S. W.	N. N.	Calm.	0.050	
23,	29.712	29.336	29.403	29.4534	26.1	40.5	38.0	36.05	1.30	2.15	1.97	1.84	89	86	87	86	Calm.	Calm.	Calm.	—	
24,	29.476	29.495	29.771	29.6915	34.8	45.2	32.7	38.25	1.87	1.69	1.57	1.77	93	57	85	79	Calm.	N. W.	Calm.	—	
25,	29.937	29.914	29.430	29.5555	39.9	48.6	42.4	49.24	1.98	2.46	—	—	82	73	85	86	S. S. W.	S.	Calm.	—	
26,	29.853	29.552	29.671	29.5588	35.8	46.8	42.1	42.72	1.98	3.06	3.00	3.00	95	80	80	86	Calm.	E. by S.	S.	—	
27,	29.327	29.433	29.483	29.4534	49.6	52.1	39.1	42.72	3.21	2.97	1.84	2.23	92	72	78	78	N. N. W.	N. W. by N.	N. N. W.	0.315	
28,	29.809	29.722	29.689	29.7190	29.6	40.0	31.2	32.97	1.46	1.59	1.66	1.65	89	65	95	85	N. by N.	W. by N.	Calm.	—	
29,	29.643	29.653	29.846	29.7605	36.0	46.8	37.6	39.96	1.81	1.88	1.17	1.79	86	59	76	73	W. by N.	N. W. by N.	N. by W.	—	
30,	30.000	30.125	30.184	30.1303	34.1	38.6	33.9	35.09	1.58	1.47	1.41	1.44	79	63	83	88	Calm.	N. by E.	N. E.	—	
31,	30.132	30.086	30.029	29.9997	31.6	36.8	40.2	39.93	1.54	2.03	2.38	2.18	87	94	97	94	N. E.	N. E.	Calm.	—	
Mean	29.7070	29.6706	29.7206	29.6960	41.30	49.61	42.19	44.81	2.45	2.80	2.42	2.60	90	76	86	84				4.180	

† 4th, 8th 25th pm, a meteor of extraordinary size appeared in S.W., passing to N.W. About three seconds after the disappearance of the meteor a sound like a distant peal of thunder was heard.—17th, about 9 pm, another very large meteor appeared, about 1° S. of Zenith, and passing due N., disappearing about 10° from horizon.

Highest Barometer, 30.200 at 2 p.m. on 31st. Range 1.203
 Lowest do., 29.988 at 6 p.m. on 13th.
 Highest Temperature, 70° on 9th, a.m. } Range 49.4
 Lowest do., 20° 7' on 23rd, a.m. }
 Mean Daily Range, 14° 60' from 9th, a.m., to 10th, a.m.

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 Barometrical 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 taken on Sundays are not included in any of the means.

The Observations entered at 7 a.m., on Sundays, are actually taken at 9 a.m.

Under the head of "Humidity of the Air," is given the proportion of the Aqueous Vapour in the Atmosphere at each Observation, in decimals of an inch of Mercury, or the proportion of the Barometrical 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 taken on Sundays are not included in any of the means.

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