

EQUATION OF TIME FOR APPARENT NOON—1883.

DAYS.	Jan.		Feb.		Mar.		April.		May		June.		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.	St.	Sl.
	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.	M.	S.
1	3	45	13	49	12	33	3	59	3	00	2	29	3	30	6	06	0	f 03	10	16	16	18	10	51
2	4	13	13	56	12	21	3	41	3	08	2	20	3	41	6	03	0	22	10	35	16	19	10	28
3	4	41	14	03	12	09	3	23	3	14	2	10	3	53	5	58	0	41	10	54	16	19	10	06
4	5	09	14	09	11	56	3	05	3	20	2	00	4	04	5	53	1	00	11	12	16	19	9	41
5	5	36	14	14	11	42	2	47	3	26	1	50	4	15	5	48	1	20	11	30	16	17	9	10
6	6	02	14	18	11	28	2	30	3	31	1	39	4	25	5	42	1	40	11	48	16	15	8	51
7	6	29	14	22	11	14	2	13	3	36	1	28	4	35	5	35	2	00	12	05	16	12	8	2
8	6	54	14	25	11	00	1	56	3	39	1	17	4	45	5	28	2	20	12	22	16	08	7	58
9	7	20	14	27	10	44	1	39	3	43	1	05	4	54	5	20	2	41	12	38	16	03	7	32
10	7	44	14	28	10	29	1	23	3	45	0	54	5	03	5	12	3	01	12	54	15	58	7	07
11	8	08	14	28	10	13	1	06	3	48	0	42	5	11	5	03	3	23	13	10	15	52	7	38
12	8	32	14	28	9	57	0	50	3	49	0	30	5	19	4	53	3	43	13	25	15	44	6	10
13	8	55	14	27	9	41	0	35	3	50	0	17	5	27	4	43	4	04	13	40	15	36	5	42
14	9	17	14	25	9	24	0	19	3	51	0	05	5	34	4	32	4	25	13	54	15	28	5	1
15	9	38	14	22	9	07	0	04	3	51	0	s 07	5	40	4	21	4	46	14	07	15	18	4	47
16	9	59	14	19	8	50	0	f 38	3	50	0	20	5	46	4	09	5	08	14	21	15	07	4	10
17	10	19	14	14	8	33	0	25	3	49	0	33	5	51	3	56	5	29	14	33	14	56	3	40
18	10	39	14	10	8	15	0	39	3	47	0	46	5	56	3	43	5	50	14	45	14	44	3	17
19	10	57	14	04	7	57	0	52	3	45	0	59	6	01	3	30	6	12	14	56	14	31	2	47
20	11	15	13	58	7	39	1	06	3	43	1	12	6	04	3	16	6	33	15	06	14	17	2	17
21	11	32	13	51	7	21	1	18	3	39	1	25	6	08	3	01	6	54	15	17	14	02	1	47
22	11	49	13	43	7	03	1	31	3	35	1	38	6	10	2	47	7	15	15	26	13	46	1	18
23	12	04	13	36	6	44	1	43	3	31	1	51	6	13	2	32	7	36	15	34	13	30	0	18
24	12	19	13	26	6	26	1	54	3	26	2	03	6	14	2	16	7	57	15	42	13	13	0	18
25	12	33	13	17	6	08	2	05	3	21	2	16	6	15	2	00	8	17	15	49	12	55	s 12	
26	12	46	13	07	5	49	2	16	3	15	2	29	6	16	1	43	8	38	15	56	12	36	0	42
27	12	59	12	56	5	30	2	26	3	08	2	41	6	15	1	27	8	58	16	01	12	16	1	12
28	13	10	12	45	5	12	2	35	3	01	2	54	6	15	1	09	9	18	16	06	11	56	1	42
29	13	21	....	....	4	54	2	44	2	54	3	06	6	14	0	52	9	38	16	10	11	35	2	11
30	13	31	....	....	4	35	2	52	2	46	3	18	6	12	0	34	9	57	16	14	11	14	2	46
31	13	40	....	....	4	17	....	....	2	28	....	....	6	09	s 16	....	....	16	16	....	....	....	3	09

NOTE.—When the Sun is slow, Equation to be added to apparent time. When the Sun is fast, Equation to be subtracted from apparent time.

ECLIPSES, 1883.

In the year 1883 there will be two Eclipses of the Sun and two of the Moon.

1. A Partial Eclipse of the Moon, April 22d, 1883, invisible in New Brunswick.

First contact with Penumbra,	April 22,	4h. 43m. 57s.,	A. M.	} Mean Time at St. John.
First contact with Shadow,	"	6h. 38m. 51s.,	"	
Middle of Eclipse,	"	7h. 14m. 21s.,	"	
Last contact with Shadow,	"	7h. 49m. 51s.,	"	
Last contact with Penumbra,	"	9h. 44m. 45s.,	"	

2. A Total Eclipse of the Sun, May 6th, 1883, invisible in New Brunswick. Begins on the earth generally May 6th, 7h. 21m. 18s., Greenwich, Mean