

SUN'S DECLINATION.

For the Meridian of Greenwich.

DAY.	JANY. S	FEB. S	MAR. S	APRIL. N	MAY N	JUN N	JULY N	AUG. N	SEPT N	OCT. S	NOV. S	DEC. S
1	23 1	17 6	7 35	4 32	15 4	22 3	23 8	18 4	8 19	3 10	14 26	21 49
2	22 56	16 49	7 17	4 55	15 22	22 11	23 4	17 48	7 57	3 33	14 45	21 58
3	22 50	16 31	6 49	5 18	15 40	22 19	23 59	17 33	7 35	3 56	15 4	22 7
4	22 41	16 13	6 26	5 41	15 57	22 26	23 54	17 17	7 13	4 20	15 23	22 15
5	22 33	15 55	6 3	6 4	16 14	22 33	23 49	17 1	6 51	4 43	15 41	22 23
6	22 30	15 37	5 40	6 26	16 31	22 40	23 43	16 45	6 29	5 6	15 59	22 31
7	22 23	15 18	5 17	6 49	16 48	22 46	23 37	16 28	6 6	5 29	16 17	22 38
8	22 15	14 50	4 53	7 11	17 5	22 51	23 30	16 11	5 44	5 52	16 35	22 44
9	22 7	14 40	4 30	7 34	17 21	22 56	23 24	15 54	5 21	6 15	16 52	22 50
10	21 58	14 21	4 7	7 56	17 37	23 1	22 16	15 37	4 59	6 38	17 9	22 56
11	21 49	14 1	3 43	8 18	17 52	23 6	22 8	15 19	4 36	7 0	17 26	23 1
12	21 39	13 41	3 19	8 40	18 7	23 10	22 15	1	4 13	7 23	17 42	23 6
13	21 29	13 21	2 56	9 2	18 22	23 13	21 52	14 43	3 50	7 45	17 58	23 10
14	21 19	13 1	2 32	9 24	18 37	23 17	21 43	14 25	3 27	8 8	18 14	23 14
15	21 8	12 41	2 9	9 45	18 51	23 19	21 34	14 6	3 4	8 30	18 30	23 17
16	20 57	12 20	1 45	10 6	19 5	23 22	21 24	13 47	2 41	8 52	18 45	23 20
17	20 45	11 59	1 21	10 28	19 19	23 24	21 14	13 28	2 17	9 14	19 0	23 23
18	20 33	11 38	57	10 19	19 33	23 25	21 4	13 9	1 54	9 36	19 14	23 24
19	20 20	11 17	34	11 9	19 46	23 26	20 53	12 49	1 31	9 58	19 28	23 26
20	20 8	10 55	S 10	11 30	19 58	23 27	20 42	12 30	1 8	10 20	19 42	23 27
21	19 54	10 34	N 11	11 51	20 11	23 28	20 31	12 10	44	10 41	19 56	23 28
22	19 41	10 12	37	12 11	20 23	23 27	20 19	11 50	N 21	11 3	20 9	23 28
23	19 27	9 50	1 1	12 31	20 34	23 27	20 7	11 29	S 3	11 24	20 22	23 27
24	19 13	9 23	1 23	12 51	20 46	23 26	19 55	11 9	26	11 45	20 34	23 26
25	18 58	9 5	1 43	13 11	20 57	23 2	19 42	10 48	49	12 6	20 46	23 25
26	18 43	8 43	2 12	13 30	21 7	23 23	19 29	10 27	1 13	12 26	20 57	23 23
27	18 28	8 21	2 35	13 49	21 18	23 2	19 15	10 6	1 36	12 47	21 9	23 21
28	18 12	7 58	2 59	14 8	21 28	23 18	19 2	9 45	2 0	13 7	21 19	23 18
29	17 56		3 22	14 27	21 37	23 15	18 48	9 24	2 23	13 27	21 30	23 15
30	17 40		3 45	14 46	21 46	23 12	18 33	9 3	2 46	13 47	21 40	23 11
31	17 23		4 9		21 55		18 19	8 41		14 6		23 7

EQUINOXES and SOLSTICES.—Mean Time at St. John.

		H. M.
Winter Solstice, ☉ enters ♋, Winter begins	Dec. 21, 1853, at	4 48 af.
Vernal Equinox, ☉ enters ♈, Spring "	Mar. 20, 1854, at	5 56 af.
Summer Solstice, ☉ enters ♊, Summer "	June 21, " at	2 44 af.
Autumnal Equinox, ☉ enters ♏, Autumn "	Sept. 23, " at	5 9 m.
Winter Solstice, ☉ enters ♋, Winter "	Dec. 22, " at	10 36 m.

Chronological Cycles.—Dominical Letter, A: Golden Number, or Lunar Cycle, 12; Epact 1; Solar Cycle, 15; Roman Indiction, 12; Julian Period, 6567.

To Ascertain the Length of the Day and Night, at any time of the year, add 12 hours to the time of the Sun's setting, and from the sum subtract the time of rising, for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning, for the length of the night. These rules are equally true for apparent time.

DAYS.	JANY.	FEB.
	☉ S. ☉	☉ S. ☉
	m. s. m.	m. s. m.
1	3 51	13 4
2	4 19	14 1
3	4 47	14 8
4	5 15	14 15
5	5 42	14 22
6	6 9	14 29
7	6 35	14 36
8	7 0	14 43
9	7 25	14 50
10	7 50	14 57
11	8 14	15 4
12	8 37	15 11
13	9 0	15 18
14	9 22	15 25
15	9 43	15 32
16	10 4	15 39
17	10 24	15 46
18	10 43	15 53
19	11 2	16 0
20	11 20	16 7
21	11 27	16 14
22	11 53	16 21
23	12 9	16 28
24	12 24	16 35
25	12 38	16 42
26	12 57	16 49
27	13 4	16 56
28	13 16	17 3
29	13 26	17 10
30	13 36	17 17
31	13 46	17 24

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