

2015 Equation of Time and Solar Declination at 12:00 GMT

© The British Sundial Society

Day	January			February			March			April			May			June			Day
	Declination	m	s Moon	Declination	m	s Moon	Declination	m	s Moon	Declination	m	s Moon	Declination	m	s Moon	Declination	m	s Moon	
1	-23°00'01"	3	28	-17°06'29"	13	34	4°31'28"	12	25	4°31'28"	3	59	15°03'48"	-2	50	22°02'42"	-2	11	1
2	-22°54'52"	3	56	-16°49'17"	13	42	-7°13'11"	12	13	4°54'35"	3	41	15°21'50"	-2	57	22°10'40"	-2	02	2
3	-22°49'16"	4	24	-16°31'47"	13	48	5°17'36"	12	01	5°17'36"	3	24	15°39'36"	-3	04	22°18'14"	-1	52	3
4	-22°43'12"	4	52	-16°14'00"	13	54	-6°27'13"	11	48	5°40'32"	3	06	15°57'07"	-3	10	22°25'26"	-1	42	4
5	-22°36'42"	5	19	-15°55'57"	14	00	6°03'21"	11	35	6°03'21"	2	49	16°14'22"	-3	15	22°32'13"	-1	31	5
6	-22°29'44"	5	45	-15°37'37"	14	04	-5°40'52"	11	21	6°26'05"	2	32	16°31'21"	-3	20	22°38'37"	-1	21	6
7	-22°22'20"	6	11	-15°19'00"	14	08	-5°17'35"	11	07	6°48'42"	2	15	16°48'04"	-3	24	22°44'38"	-1	10	7
8	-22°14'30"	6	37	-15°00'09"	14	11	-4°54'13"	10	52	7°11'12"	1	58	17°04'29"	-3	28	22°50'14"	-0	58	8
9	-22°06'13"	7	02	-14°41'01"	14	13	-4°30'48"	10	38	7°33'35"	1	41	17°20'38"	-3	31	22°55'26"	-0	47	9
10	-21°57'30"	7	27	-14°21'39"	14	14	-4°07'19"	10	22	7°55'50"	1	25	17°36'29"	-3	34	23°00'14"	-0	35	10
11	-21°48'22"	7	51	-14°02'03"	14	15	-3°43'47"	10	07	8°17'57"	1	09	17°52'03"	-3	36	23°04'38"	-0	23	11
12	-21°38'48"	8	14	-13°42'13"	14	14	-3°20'12"	9	51	8°39'56"	0	54	18°07'19"	-3	37	23°08'37"	-0	11	12
13	-21°28'48"	8	37	-13°22'09"	14	13	-2°56'35"	9	35	9°01'46"	0	38	18°22'16"	-3	35	23°12'12"	0	02	13
14	-21°18'24"	8	59	-13°01'51"	14	12	-2°32'55"	9	18	9°23'28"	0	23	18°36'55"	-3	38	23°15'22"	0	14	14
15	-21°07'35"	9	21	-12°41'21"	14	09	-2°09'14"	9	02	9°45'00"	0	08	18°51'15"	-3	38	23°18'08"	0	27	15
16	-20°56'22"	9	42	-12°20'39"	14	06	-1°45'32"	8	45	10°06'22"	-0	06	19°05'16"	-3	37	23°20'29"	0	40	16
17	-20°44'45"	10	02	-11°59'45"	14	02	-1°21'49"	8	28	10°27'35"	-0	20	19°18'58"	-3	35	23°22'25"	0	53	17
18	-20°32'44"	10	21	-11°38'39"	13	57	-0°58'05"	8	10	10°48'37"	-0	34	19°32'20"	-3	33	23°23'57"	1	06	18
19	-20°20'20"	10	40	-11°17'22"	13	52	-0°34'21"	7	53	11°09'29"	-0	47	19°45'22"	-3	31	23°25'04"	1	19	19
20	-20°07'33"	10	58	-10°55'55"	13	46	-0°10'37"	7	35	11°30'09"	-1	00	19°58'04"	-3	28	23°25'46"	1	32	20
21	-19°54'23"	11	16	-10°34'18"	13	40	0°13'05"	7	17	11°50'38"	-1	12	20°10'25"	-3	24	23°26'03"	1	45	21
22	-19°40'51"	11	32	-10°12'30"	13	32	0°36'46"	7	00	12°10'55"	-1	24	20°22'26"	-3	20	23°25'56"	1	58	22
23	-19°26'57"	11	48	-9°50'34"	13	24	1°00'27"	6	42	12°31'01"	-1	36	20°34'06"	-3	15	23°25'24"	2	11	23
24	-19°12'42"	12	03	-9°28'28"	13	16	1°24'06"	6	24	12°50'53"	-1	47	20°45'24"	-3	10	23°24'27"	2	24	24
25	-18°58'05"	12	17	-9°06'14"	13	07	1°47'42"	6	06	13°10'34"	-1	57	20°56'22"	-3	04	23°23'05"	2	37	25
26	-18°43'08"	12	30	-8°43'52"	12	57	2°11'16"	5	47	13°30'01"	-2	07	21°06'57"	-2	58	23°21'18"	2	50	26
27	-18°27'50"	12	43	-8°21'23"	12	47	2°34'48"	5	29	13°49'14"	-2	17	21°17'10"	-2	51	23°19'07"	3	02	27
28	-18°12'12"	12	55	-7°58'46"	12	36	2°58'16"	5	11	14°08'14"	-2	26	21°27'02"	-2	44	23°16'32"	3	15	28
29	-17°56'15"	13	06		12	24	3°21'40"	4	53	14°27'00"	-2	35	21°36'31"	-2	36	23°13'31"	3	27	29
30	-17°39'58"	13	16		12	11	3°45'00"	4	35	14°45'31"	-2	43	21°45'37"	-2	28	23°10'07"	3	39	30
31	-17°23'23"	13	25		12	00	4°08'17"	4	17				21°54'21"	-2	20				31

● New Moon ● First Quarter ○ Full Moon ● Last Quarter

Perihelion: January 4th, 7h

Spring equinox: March 20th, 22:45

Summer solstice: June 21st, 16:38

2015 Equation of Time and Solar Declination at 12:00 GMT

Day	Declination	Equation of Time	Day	Declination	Equation of Time
1	-11 04	-21°47'20"	2	-16 24	-21°56'28"
2	-10 41	-21°56'28"	3	-16 24	-22°05'11"
3	-10 18	-22°12'29"	4	-16 25	-22°27'37"
4	-9 54	-22°21'29"	5	-16 25	-22°42'18"
5	-9 30	-22°21'20"	6	-16 22	-22°35'45"
6	-9 05	-22°28'46"	7	-16 19	-22°35'45"
7	-8 39	-22°35'45"	8	-16 15	-22°42'18"
8	-8 13	-22°48'25"	9	-16 11	-22°48'25"
9	-7 47	-22°54'04"	10	-16 05	-22°54'04"
10	-7 20	-22°59'16"	11	-15 59	-22°59'16"
11	-6 53	-22°59'16"	12	-15 44	-23°04'01"
12	-6 25	-23°04'01"	13	-15 44	-23°08'19"
13	-5 56	-23°08'19"	14	-15 36	-23°12'09"
14	-5 28	-23°12'09"	15	-15 26	-23°15'31"
15	-5 00	-23°15'31"	16	-15 16	-23°18'26"
16	-4 31	-23°18'26"	17	-15 05	-23°20'52"
17	-4 01	-23°20'52"	18	-14 53	-23°22'51"
18	-3 32	-23°22'51"	19	-14 40	-23°24'21"
19	-3 02	-23°24'21"	20	-14 26	-23°25'23"
20	-2 33	-23°25'23"	21	-14 11	-23°25'57"
21	-2 03	-23°25'57"	22	-13 56	-23°26'03"
22	-1 33	-23°26'03"	23	-13 40	-23°25'40"
23	-1 03	-23°25'40"	24	-13 23	-23°24'49"
24	-0 33	-23°23'30"	25	-13 05	-23°23'30"
25	0 04	-23°23'30"	26	-12 47	-23°21'43"
26	0 26	-23°21'43"	27	-12 28	-23°19'28"
27	0 56	-23°19'28"	28	-12 08	-23°16'44"
28	1 25	-23°16'44"	29	-11 47	-23°13'33"
29	1 55	-23°13'33"	30	-11 24	-23°09'53"
30	2 24	-23°09'53"	31	-11 04	-23°05'46"

Day	Declination	Equation of Time	Day	Declination	Equation of Time
1	-10 13	-3°10'13"	10	-13 33	-3°33'27"
2	-11 10	-4°24'56"	11	-13 33	-3°33'27"
3	-12 11	-5°51'54"	12	-14 08	-4°24'56"
4	-13 18	-7°00'11"	13	-14 21	-5°51'54"
5	-14 31	-8°07'38"	14	-14 34	-7°00'11"
6	-15 44	-9°14'03"	15	-14 46	-8°07'38"
7	-16 57	-10°20'00"	16	-14 57	-9°14'03"
8	-18 10	-11°23'07"	17	-15 08	-10°20'00"
9	-19 23	-12°25'25"	18	-15 18	-11°23'07"
10	-20 36	-13°25'59"	19	-15 26	-12°25'25"
11	-21 49	-14°24'38"	20	-15 31	-13°25'59"
12	-22 52	-15°21'14"	21	-15 36	-14°24'38"
13	-23 55	-16°15'34"	22	-15 44	-15°21'14"
14	-24 58	-17°07'37"	23	-15 54	-16°15'34"
15	-25 59	-17°57'43"	24	-16 05	-17°07'37"
16	-26 59	-18°43'10"	25	-16 15	-17°57'43"
17	-27 58	-19°26'38"	26	-16 25	-18°43'10"
18	-28 56	-19°40'26"	27	-16 33	-19°26'38"
19	-29 53	-20°19'39"	28	-16 40	-19°40'26"
20	-30 49	-20°43'55"	29	-16 47	-20°19'39"
21	-31 44	-21°13'37"	30	-16 54	-20°43'55"
22	-32 38	-21°48'18"	31	-17 00	-21°13'37"

Day	Declination	Equation of Time	Day	Declination	Equation of Time
1	-30 07	-8°12'25"	10	-44 54	-11°19'16"
2	-31 13	-9°14'03"	11	-45 57	-12°19'16"
3	-32 18	-10°17'44"	12	-47 01	-13°16'15"
4	-33 22	-11°22'00"	13	-48 04	-14°10'43"
5	-34 25	-12°26'58"	14	-49 07	-15°12'30"
6	-35 27	-13°31'55"	15	-50 09	-16°12'29"
7	-36 28	-14°36'55"	16	-51 10	-17°10'26"
8	-37 28	-15°41'18"	17	-52 11	-18°06'57"
9	-38 27	-16°45'08"	18	-53 11	-19°02'57"
10	-39 25	-17°48'18"	19	-54 10	-19°58'29"
11	-40 22	-18°50'50"	20	-55 09	-20°53'55"
12	-41 18	-19°52'37"	21	-56 07	-21°49'36"
13	-42 13	-20°53'30"	22	-57 04	-22°45'34"
14	-43 07	-21°53'32"	23	-58 00	-23°41'59"
15	-44 00	-22°52'51"	24	-58 55	-24°38'44"
16	-44 92	-23°51'28"	25	-59 49	-25°35'30"
17	-45 83	-24°49'25"	26	-60 42	-26°32'37"
18	-46 73	-25°46'44"	27	-61 34	-27°29'14"
19	-47 62	-26°43'28"	28	-62 25	-28°25'11"
20	-48 50	-27°39'37"	29	-63 15	-29°20'50"
21	-49 38	-28°35'23"	30	-64 04	-30°16'01"
22	-50 25	-29°30'38"	31	-64 52	-31°10'56"
23	-51 11	-30°25'35"			
24	-51 57	-31°20'00"			
25	-52 42	-32°13'55"			
26	-53 26	-33°06'55"			
27	-54 09	-33°59'15"			
28	-54 51	-34°50'00"			
29	-55 32	-35°39'05"			
30	-56 12	-36°26'75"			
31	-56 51	-37°11'58"			

Apheleon: July 6th, 20h

Autumn equinox: September 23rd, 08:21

Winter solstice: December 22nd, 04:48