

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

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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	6°50'15"	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				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				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				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

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

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

Aphelion: July 6th, 20th

Autumn equinox: September 23rd, 08:21

Winter solstice: December 22nd, 04:48