



Astrodienst Ephemeris Tables for the year 2150

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

ASTRODIENST EPHEMERIS for the year 2150
geocentric

JANUARY 2150

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 42 30	10 ³ 27'46	2 ² 14	19 ² 28	3 ² 29	26 ² 16	25 ² 59	22 ² R57	4 ² 56	4 ² 6	20 ² R48	13 ² 39	13 ² 54	6 ² 51	8 ² 21	T 1
F 2	6 46 27	11 ² 28'56	14 ² 38	20 ² 45	3 ² 53	27 ² 0	26 ² 13	22 ² II53	4 ² 59	4 ² 8	20 ² II47	13 ² 39	13 ² 50	6 ² 57	8 ² 28	F 2
S 3	6 50 23	12 ² 30'06	27 ² 14	22 ² 4	4 ² 18	27 ² 44	26 ² 26	22 ² 48	5 ² 2	4 ² 11	20 ² 46	13 ² 39	13 ² 47	7 ² 4	8 ² 35	S 3
S 4	6 54 20	13 ² 31'16	10 ² 4	23 ² 23	4 ² 45	28 ² 29	26 ² 40	22 ² 44	5 ² 5	4 ² 13	20 ² 45	13 ² R39	13 ² 44	7 ² 11	8 ² 42	S 4
M 5	6 58 17	14 ² 32'25	23 ² 10	24 ² 44	5 ² 14	29 ² 13	26 ² 53	22 ² 39	5 ² 8	4 ² 15	20 ² 44	13 ² 39	13 ² 41	7 ² 17	8 ² 48	M 5
T 6	7 2 13	15 ² 33'34	6 ² 33	26 ² 7	5 ² 44	29 ² 57	27 ² 6	22 ² 35	5 ² 11	4 ² 17	20 ² 43	13 ² 39	13 ² 38	7 ² 24	8 ² 55	T 6
W 7	7 6 10	16 ² 34'43	20 ² 16	27 ² 30	6 ² 16	0 ² 42	27 ² 20	22 ² 31	5 ² 15	4 ² 19	20 ² 42	13 ² D39	13 ² 35	7 ² 31	9 ² 2	W 7
T 8	7 10 6	17 ² 35'52	4 ² 18	28 ² 54	6 ² 49	1 ² 26	27 ² 33	22 ² 26	5 ² 17	4 ² 22	20 ² 41	13 ² 39	13 ² 31	7 ² 37	9 ² 9	T 8
F 9	7 14 3	18 ² 37'00	18 ² 38	0 ² 19	7 ² 24	2 ² 11	27 ² 46	22 ² 22	5 ² 20	4 ² 24	20 ² 40	13 ² 39	13 ² 28	7 ² 44	9 ² 15	F 9
S 10	7 17 59	19 ² 38'08	3 ² II14	1 ² 44	8 ² 0	2 ² 55	27 ² 59	22 ² 18	5 ² 23	4 ² 26	20 ² 39	13 ² 40	13 ² 25	7 ² 51	9 ² 22	S 10
S 11	7 21 56	20 ² 39'16	18 ² 2	3 ² 11	8 ² 38	3 ² 40	28 ² 12	22 ² 14	5 ² 26	4 ² 28	20 ² 38	13 ² 41	13 ² 22	7 ² 57	9 ² 28	S 11
M 12	7 25 52	21 ² 40'23	2 ² 55	4 ² 38	9 ² 16	4 ² 25	28 ² 25	22 ² 10	5 ² 29	4 ² 31	20 ² 37	13 ² 41	13 ² 19	8 ² 4	9 ² 35	M 12
T 13	7 29 49	22 ² 41'30	17 ² 45	6 ² 6	9 ² 56	5 ² 9	28 ² 39	22 ² 6	5 ² 32	4 ² 33	20 ² 36	13 ² R41	13 ² 15	8 ² 11	9 ² 41	T 13
W 14	7 33 46	23 ² 42'37	2 ² 52	7 ² 34	10 ² 38	5 ² 54	28 ² 52	22 ² 2	5 ² 35	4 ² 35	20 ² 35	13 ² 41	13 ² 12	8 ² 18	9 ² 47	W 14
T 15	7 37 42	24 ² 43'43	16 ² 49	9 ² 3	11 ² 20	6 ² 39	29 ² 5	21 ² 58	5 ² 38	4 ² 37	20 ² 34	13 ² 40	13 ² 9	8 ² 24	9 ² 54	T 15
F 16	7 41 39	25 ² 44'50	0 ² 50	10 ² 32	12 ² 3	7 ² 24	29 ² 17	21 ² 55	5 ² 40	4 ² 39	20 ² 33	13 ² 38	13 ² 6	8 ² 31	10 ² 0	F 16
S 17	7 45 35	26 ² 45'55	14 ² 26	12 ² 2	12 ² 48	8 ² 8	29 ² 30	21 ² 51	5 ² 43	4 ² 41	20 ² 32	13 ² 36	13 ² 3	8 ² 38	10 ² 6	S 17
S 18	7 49 32	27 ² 47'01	27 ² 37	13 ² 33	13 ² 33	8 ² 53	29 ² 43	21 ² 48	5 ² 46	4 ² 44	20 ² 31	13 ² 35	13 ² 0	8 ² 44	10 ² 12	S 18
M 19	7 53 28	28 ² 48'06	10 ² 24	15 ² 4	14 ² 20	9 ² 38	29 ² 56	21 ² 44	5 ² 48	4 ² 46	20 ² 30	13 ² 33	12 ² 56	8 ² 51	10 ² 18	M 19
T 20	7 57 25	29 ² 49'12	22 ² 50	16 ² 36	15 ² 7	10 ² 23	0 ² 9	21 ² 41	5 ² 51	4 ² 48	20 ² 29	13 ² 32	12 ² 53	8 ² 58	10 ² 24	T 20
W 21	8 1 21	0 ² 50'16	5 ² 11	18 ² 8	15 ² 55	11 ² 8	0 ² 21	21 ² 38	5 ² 53	4 ² 50	20 ² 28	13 ² D32	12 ² 50	9 ² 4	10 ² 30	W 21
T 22	8 5 18	1 ² 51'21	16 ² 57	19 ² 41	16 ² 44	11 ² 53	0 ² 34	21 ² 34	5 ² 56	4 ² 52	20 ² 28	13 ² 33	12 ² 47	9 ² 11	10 ² 36	T 22
F 23	8 9 15	2 ² 52'26	28 ² 48	21 ² 14	17 ² 34	12 ² 38	0 ² 47	21 ² 31	5 ² 58	4 ² 54	20 ² 27	13 ² 34	12 ² 44	9 ² 18	10 ² 41	F 23
S 24	8 13 11	3 ² 53'30	10 ² 26	22 ² 48	18 ² 25	13 ² 23	0 ² 59	21 ² 28	6 ² 1	4 ² 56	20 ² 26	13 ² 36	12 ² 41	9 ² 24	10 ² 47	S 24
S 25	8 17 8	4 ² 54'33	22 ² 26	24 ² 23	19 ² 16	14 ² 9	1 ² 12	21 ² 25	6 ² 3	4 ² 58	20 ² 25	13 ² 38	12 ² 37	9 ² 31	10 ² 53	S 25
M 26	8 21 4	5 ² 55'36	4 ² 22	25 ² 58	20 ² 9	14 ² 54	1 ² 24	21 ² 23	6 ² 5	5 ² 0	20 ² 24	13 ² 39	12 ² 34	9 ² 38	10 ² 58	M 26
T 27	8 25 1	6 ² 56'39	16 ² 27	27 ² 34	21 ² 1	15 ² 39	1 ² 37	21 ² 20	6 ² 8	5 ² 2	20 ² 24	13 ² R39	12 ² 31	9 ² 44	11 ² 4	T 27
W 28	8 28 57	7 ² 57'40	28 ² 44	29 ² 10	21 ² 55	16 ² 24	1 ² 49	21 ² 17	6 ² 10	5 ² 4	20 ² 23	13 ² 38	12 ² 28	9 ² 51	11 ² 9	W 28
T 29	8 32 54	8 ² 58'41	11 ² 24	0 ² 47	22 ² 49	17 ² 10	2 ² 1	21 ² 15	6 ² 12	5 ² 6	20 ² 22	13 ² 36	12 ² 25	9 ² 58	11 ² 14	T 29
F 30	8 36 50	9 ² 59'41	23 ² 58	2 ² 24	23 ² 44	17 ² 55	2 ² 13	21 ² 12	6 ² 14	5 ² 8	20 ² 21	13 ² 32	12 ² 21	10 ² 4	11 ² 20	F 30
S 31	8 40 47	11 ² 0'40	6 ² 56	4 ² 3	24 ² 39	18 ² 40	2 ² 25	21 ² II10	6 ² 16	5 ² 10	20 ² II21	13 ² 28	12 ² 18	10 ² 11	11 ² 25	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
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ASTRODIENST EPHEMERIS for the year 2150

geocentric

FEBRUARY 2150

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 44	12° 1' 38"	20° 7' 7"	5° 41' 25"	25° 35' 19"	2° 38' 21"	2° 38' 21"	21° 8' 6"	6° 18' 53"	5° 12' 20"	13° 23' 12"	12° 15' 10"	10° 18' 11"	11° 30' 11"	S 1	
M 2	8 48 40	13° 2' 35"	3° 31' 7"	7° 21' 26"	26° 32' 20"	2° 50' 21"	2° 50' 21"	21° 11' 6"	6° 20' 5°	5° 14' 20"	13° 19' 13"	12° 12' 10"	10° 24' 11"	11° 35' 11"	M 2	
T 3	8 52 37	14° 3' 31"	17° 7' 9"	9° 1' 27"	27° 29' 20"	3° 1' 21"	3° 1' 21"	21° 4' 6"	6° 22' 5°	5° 16' 20"	13° 15' 13"	12° 9' 10"	10° 31' 11"	11° 40' 11"	T 3	
W 4	8 56 33	15° 4' 25"	0° 54' 10"	42' 28"	26' 21"	42' 3°	42' 3°	21° 2' 6"	6° 24' 5°	5° 18' 20"	13° 13' 13"	12° 6' 10"	10° 38' 11"	11° 45' 11"	W 4	
T 5	9 0 30	16° 5' 18"	14° 52' 12"	24' 29"	22° 22'	3° 25' 21"	3° 25' 21"	21° 0' 6"	6° 26' 5°	5° 19' 20"	13° 12' 13"	12° 2' 10"	10° 44' 11"	11° 49' 11"	T 5	
F 6	9 4 26	17° 6' 10"	28° 59' 14°	6° 03'	23° 23'	3° 37' 20"	3° 37' 20"	20° 58' 6°	6° 28' 5°	5° 21' 20"	13° 12' 11°	11° 59' 10°	10° 51' 11°	11° 54' 11°	F 6	
S 7	9 8 23	18° 7' 00"	13° 14' 15°	49' 1°	22' 23°	3° 48' 20°	3° 48' 20°	57' 6°	6° 30' 5°	5° 23' 20°	13° 14' 11°	11° 56' 10°	10° 58' 11°	11° 59' 11°	S 7	
S 8	9 12 19	19° 7' 49"	27° 35' 17°	33' 2°	21' 24°	4° 0' 20°	4° 0' 20°	55' 6°	6° 31' 5°	5° 25' 20°	13° 15' 11°	11° 53' 11°	10° 4' 12°	11° 3' 12°	S 8	
M 9	9 16 16	20° 8' 37"	11° 59' 19°	18' 3°	21' 25°	4° 11' 20°	4° 11' 20°	54' 6°	6° 33' 5°	5° 27' 20°	13° 16' 11°	11° 50' 11°	10° 8' 12°	11° 8' 12°	M 9	
T 10	9 20 13	21° 9' 23"	26° 23' 21°	3' 4°	21' 26°	4° 23' 20°	4° 23' 20°	53' 6°	6° 35' 5°	5° 28' 20°	13° 15' 11°	11° 47' 11°	10° 18' 12°	11° 12' 12°	T 10	
W 11	9 24 9	22° 10' 07"	10° 40' 22°	49' 5°	22' 27°	4° 34' 20°	4° 34' 20°	51' 6°	6° 36' 5°	5° 30' 20°	13° 13' 11°	11° 43' 11°	10° 24' 12°	11° 16' 12°	W 11	
T 12	9 28 6	23° 10' 51"	24° 47' 24°	36' 6°	23' 27°	4° 45' 20°	4° 45' 20°	50' 6°	6° 38' 5°	5° 32' 20°	13° 8' 11°	11° 40' 11°	10° 31' 12°	11° 20' 12°	T 12	
F 13	9 32 2	24° 11' 33"	8° 39' 26°	23' 7°	24' 28°	4° 56' 20°	4° 56' 20°	49' 6°	6° 39' 5°	5° 33' 20°	13° 2' 11°	11° 37' 11°	10° 38' 12°	11° 25' 12°	F 13	
S 14	9 35 59	25° 12' 13"	22° 11' 28°	11' 8°	26' 29°	5° 7' 20°	5° 7' 20°	49' 6°	6° 40' 5°	5° 35' 20°	12° 54' 11°	11° 34' 11°	10° 44' 12°	11° 29' 12°	S 14	
S 15	9 39 55	26° 12' 53"	5° 22' 0°	0° 9°	28' 0°	5° 18' 20°	5° 18' 20°	48' 6°	6° 42' 5°	5° 37' 20°	12° 47' 11°	11° 31' 11°	10° 51' 12°	11° 32' 12°	S 15	
M 16	9 43 52	27° 13' 31"	18° 11' 1°	50' 10°	31' 0°	5° 29' 20°	5° 29' 20°	47' 6°	6° 43' 5°	5° 38' 20°	12° 40' 11°	11° 27' 11°	10° 58' 12°	11° 36' 12°	M 16	
T 17	9 47 48	28° 14' 08"	0° 40' 3°	40' 11°	33' 1°	5° 40' 20°	5° 40' 20°	47' 6°	6° 44' 5°	5° 40' 20°	12° 34' 11°	11° 24' 11°	10° 4' 12°	11° 40' 12°	T 17	
W 18	9 51 45	29° 14' 44"	12° 52' 5°	30' 12°	36' 2°	5° 51' 20°	5° 51' 20°	47' 6°	6° 46' 5°	5° 41' 20°	12° 31' 11°	11° 21' 11°	10° 11' 12°	11° 44' 12°	W 18	
T 19	9 55 42	0° 15' 52"	0° 15' 52"	15' 24°	52' 7°	21' 13°	21' 13°	9' 6°	6° 47' 5°	5° 43' 20°	12° 29' 11°	11° 18' 11°	10° 18' 12°	11° 47' 12°	T 19	
F 20	9 59 38	1° 15' 52"	6° 43' 9°	12' 14°	43' 3°	5° 55' 20°	5° 55' 20°	12' 6°	6° 48' 5°	5° 44' 20°	12° 29' 11°	11° 15' 11°	10° 24' 12°	11° 51' 12°	F 20	
S 21	10 3 35	2° 16' 24"	18° 31' 11°	3' 15°	47' 4°	6° 22' 20°	6° 22' 20°	46' 6°	6° 49' 5°	5° 46' 20°	12° 30' 11°	11° 12' 11°	10° 31' 12°	11° 54' 12°	S 21	
S 22	10 7 31	3° 16' 55"	0° 23' 12°	54' 16°	51' 5°	5° 27' 20°	5° 27' 20°	46' 6°	6° 50' 5°	5° 47' 20°	12° 31' 11°	11° 8' 11°	10° 37' 12°	11° 57' 12°	S 22	
M 23	10 11 28	4° 17' 25"	12° 21' 14°	45' 17°	56' 6°	6° 13' 20°	6° 13' 20°	46' 6°	6° 51' 5°	5° 49' 20°	12° 32' 11°	11° 5' 11°	10° 44' 13°	11° 0' 13°	M 23	
T 24	10 15 24	5° 17' 54"	24° 32' 16°	35' 19°	1' 6°	5° 59' 20°	5° 59' 20°	47' 6°	6° 52' 5°	5° 50' 20°	12° 31' 11°	11° 2' 11°	10° 51' 13°	11° 4' 13°	T 24	
W 25	10 19 21	6° 18' 21"	6° 59' 18°	24' 20°	5' 7°	7° 45' 20°	7° 45' 20°	3' 7°	6° 53' 5°	5° 51' 20°	12° 30' 11°	10° 59' 11°	10° 59' 12°	11° 57' 13°	W 25	
T 26	10 23 17	7° 18' 46"	19° 43' 20°	13' 21°	11' 8°	7° 13' 20°	7° 13' 20°	48' 6°	6° 53' 5°	5° 53' 20°	12° 23' 11°	10° 56' 11°	10° 56' 13°	11° 4' 13°	T 26	
F 27	10 27 14	8° 19' 10"	2° 46' 21°	59' 22°	16' 9°	7° 22' 20°	7° 22' 20°	48' 6°	6° 54' 5°	5° 54' 20°	12° 15' 11°	10° 52' 11°	10° 52' 13°	11° 11' 13°	F 27	
S 28	10 31 11	9° 19' 32"	16° 8' 23°	44' 23°	22' 23°	10° 4' 7°	10° 4' 7°	32' 20°	6° 55' 5°	5° 55' 20°	12° 5' 11°	10° 54' 11°	10° 54' 13°	11° 15' 13°	S 28	

Day	☉	☽		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s10	8s19	4s48	20s44	1s57	19s17	4n 4	22s48	0s48	23s 5	0n19	21n50	1s18	21s12	0n 9	22s14	1n 5	13n56	9s 9	22n45	22n51	19s16	18s18	3n52	
M 2	16 53	3 19	5 8	20 21	2 0	19 22	4 0	22 42	0 49	23 4	0 19	21 50	1 18	21 12	0 9	22 14	1 5	13 56	9 9	22 45	22 52	19 18	18 19	3 53	
T 3	16 36	1n55	5 12	19 56	2 2	19 27	3 57	22 36	0 49	23 4	0 19	21 50	1 17	21 13	0 9	22 14	1 5	13 57	9 9	22 46	22 52	19 20	18 19	3 53	
W 4	16 18	7 7	4 58	19 31	2 3	19 31	3 53	22 29	0 50	23 4	0 19	21 50	1 17	21 13	0 9	22 14	1 5	13 57	9 9	22 46	22 52	19 21	18 19	3 54	
T 5	16 0	12 2	4 27	19 3	2 4	19 35	3 50	22 23	0 50	23 4	0 19	21 50	1 17	21 13	0 9	22 14	1 5	13 57	9 8	22 46	22 52	19 23	18 19	3 54	
F 6	15 42	16 21	3 39	18 35	2 5	19 39	3 46	22 15	0 51	23 3	0 19	21 50	1 17	21 14	0 9	22 14	1 5	13 57	9 8	22 46	22 53	19 25	18 19	3 55	
S 7	15 23	19 47	2 37	18 4	2 5	19 42	3 42	22 8	0 51	23 3	0 19	21 50	1 17	21 14	0 9	22 13	1 5	13 57	9 8	22 46	22 53	19 26	18 19	3 56	
S 8	15 4	21 59	1 25	17 33	2 5	19 45	3 39	22 1	0 52	23 3	0 19	21 50	1 16	21 14	0 9	22 13	1 5	13 57	9 8	22 46	22 53	19 28	18 19	3 56	
M 9	14 45	22 46	0 7	17 0	2 5	19 48	3 35	21 53	0 52	23 3	0 19	21 51	1 16	21 14	0 9	22 13	1 5	13 58	9 8	22 46	22 54	19 30	18 19	3 57	
T 10	14 26	22 1	1n11	16 25	2 4	19 50	3 31	21 45	0 53	23 2	0 19	21 51	1 16	21 15	0 9	22 13	1 5	13 58	9 7	22 46	22 54	19 31	18 19	3 57	
W 11	14 7	19 51	2 24	15 49	2 2	19 52	3 26	21 37	0 53	23 2	0 18	21 51	1 16	21 15	0 9	22 13	1 5	13 58	9 7	22 46	22 54	19 33	18 19	3 58	
T 12	13 47	16 29	3 26	15 12	2 0	19 54	3 22	21 28	0 54	23 2	0 18	21 51	1 15	21 15	0 9	22 13	1 5	13 58	9 7	22 46	22 54	19 35	18 19	3 58	
F 13	13 27	12 16	4 16	14 34	1 58	19 55	3 18	21 19	0 54	23 1	0 18	21 51	1 15	21 15	0 9	22 13	1 5	13 58	9 7	22 47	22 55	19 36	18 19	3 59	
S 14	13 7	7 32	4 49	13 53	1 55	19 56	3 14	21 10	0 55	23 1	0 18	21 51	1 15	21 16	0 9	22 13	1 5	13 59	9 6	22 48	22 55	19 38	18 19	4 0	
S 15	12 46	2 34	5 6	13 12	1 52	19 56	3 9	21 1	0 55	23 1	0 18	21 51	1 15	21 16	0 9	22 13	1 5	13 59	9 6	22 48	22 55	19 40	18 19	4 0	
M 16	12 25	2s23	5 8	12 29	1 48	19 56	3 5	20 52	0 56	23 0	0 18	21 52	1 15	21 16	0 9	22 13	1 5	13 59	9 6	22 49	22 56	19 41	18 18	4 1	
T 17	12 5	7 6	4 54	11 45	1 43	19 55	3 1	20 42	0 56	23 0	0 18	21 52	1 14	21 16	0 9	22 13	1 5	13 59	9 6	22 50	22 56	19 43	18 18	4 1	
W 18	11 44	11 27	4 27	11 0	1 38	19 54	2 56	20 32	0 57	22 59	0 18	21 52	1 14	21 17	0 9	22 12	1 5	13 59	9 5	22 50	22 56	19 45	18 18	4 2	
T 19	11 22	15 16	3 49	10 14	1 32	19 53	2 51	20 22	0 57	22 59	0 18	21 52	1 14	21 17	0 9	22 12	1 5	14 0	9 5	22 50	22 56	19 46	18 18	4 3	
F 20	11 1	18 26	3 1	9 26	1 25	19 51	2 47	20 12	0 58	22 59	0 18	21 52	1 14	21 17	0 9	22 12	1 5	14 0	9 5	22 50	22 57	19 48	18 18	4 3	
S 21	10 39	20 50	2 6	8 37	1 18	19 48	2 42	20 1	0 58	22 58	0 18	21 53	1 13	21 17	0 9	22 12	1 5	14 0	9 5	22 50	22 57	19 49	18 18	4 4	
S 22	10 18	22 20	1 5	7 48	1 11	19 45	2 38	19 51	0 59	22 58	0 18	21 53	1 13	21 17	0 9	22 12	1 6	14 0	9 5	22 50	22 57	19 51	18 17	4 5	
M 23	9 56	22 50	0 1	6 58	1 2	19 42	2 33	19 40	0 59	22 57	0 18	21 53	1 13	21 17	0 9	22 12	1 6	14 0	9 4	22 50	22 57	19 53	18 17	4 5	
T 24	9 34	22 15	1s 4	6 7	0 53	19 38	2 28	19 29	1 0	22 57	0 18	21 53	1 13	21 18	0 9	22 12	1 6	14 1	9 4	22 50	22 58	19 54	18 17	4 6	
W 25	9 11	20 34	2 8	5 15	0 44	19 33	2 23	19 17	1 0	22 56	0 18	21 54	1 13	21 18	0 9	22 12	1 6	14 1	9 4	22 50	22 58	19 56	18 17	4 6	
T 26	8 49	17 50	3 6	4 23	0 33	19 28	2 19	19 6	1 1	22 56	0 18	21 54	1 12	21 18	0 9	22 12	1 6	14 1	9 4	22 51	22 58	19 57	18 16	4 7	
F 27	8 27	14 9	3 56	3 31	0 23	19 23	2 14	18 54	1 1	22 55	0 18	21 54	1 12	21 18	0 9	22 12	1 6	14 1	9 3	22 51	22 58	19 59	18 16	4 8	
S 28	8s 4	9s40	4s34	2s39	0s11	19s17	2n 9	18s42	1s 2	22s55	0n18	21n54	1s12	21s18	0n 9	22s12	1n 6	14n 2	9s 3	22n52	22n59	20s 1	18s16	4n 8	

ASTRODIENST EPHEMERIS for the year 2150

geocentric

MARCH 2150

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 35 7	10 ¹⁸ 19'52	29 ¹⁸ 46	25 ¹⁸ 26	24 ¹⁸ 27	10 ¹⁸ 50	7 ¹⁸ 42	20 ¹⁸ 50	6 ¹⁸ 55	5 ¹⁸ 56	20 ¹⁸ R 9	11 ¹⁸ R55	10 ¹⁸ 46	13 ¹⁸ 24	13 ¹⁸ 17	S 1
M 2	10 39 4	11 ¹⁸ 20'11	13 ¹⁸ 37	27 ¹⁸ 5	25 ¹⁸ 33	11 ¹⁸ 36	7 ¹⁸ 51	20 ¹⁸ 51	6 ¹⁸ 56	5 ¹⁸ 58	20 ¹⁸ II 9	11 ¹⁸ 45	10 ¹⁸ 43	13 ¹⁸ 31	13 ¹⁸ 20	M 2
T 3	10 43 0	12 ¹⁸ 20'27	27 ¹⁸ 37	28 ¹⁸ 41	26 ¹⁸ 40	12 ¹⁸ 22	8 ¹⁸ 0	20 ¹⁸ 52	6 ¹⁸ 56	5 ¹⁸ 59	20 ¹⁸ 9	11 ¹⁸ 37	10 ¹⁸ 40	13 ¹⁸ 37	13 ¹⁸ 22	T 3
W 4	10 46 57	13 ¹⁸ 20'42	11 ¹⁸ 42	0 ¹⁸ 12	27 ¹⁸ 46	13 ¹⁸ 9	8 ¹⁸ 9	20 ¹⁸ 54	6 ¹⁸ 57	6 ¹⁸ 0	20 ¹⁸ 9	11 ¹⁸ 30	10 ¹⁸ 37	13 ¹⁸ 44	13 ¹⁸ 25	W 4
T 5	10 50 53	14 ¹⁸ 20'55	25 ¹⁸ 49	1 ¹⁸ 39	28 ¹⁸ 52	13 ¹⁸ 55	8 ¹⁸ 19	20 ¹⁸ 55	6 ¹⁸ 57	6 ¹⁸ 1	20 ¹⁸ D 9	11 ¹⁸ 26	10 ¹⁸ 33	13 ¹⁸ 51	13 ¹⁸ 27	T 5
F 6	10 54 50	15 ¹⁸ 21'06	9 ¹⁸ II57	3 ¹⁸ 1	29 ¹⁸ 59	14 ¹⁸ 41	8 ¹⁸ 28	20 ¹⁸ 56	6 ¹⁸ 58	6 ¹⁸ 2	20 ¹⁸ 9	11 ¹⁸ D25	10 ¹⁸ 30	13 ¹⁸ 57	13 ¹⁸ 29	F 6
S 7	10 58 46	16 ¹⁸ 21'14	24 ¹⁸ 3	4 ¹⁸ 17	1 ¹⁸ ≈ 6	15 ¹⁸ 28	8 ¹⁸ 36	20 ¹⁸ 58	6 ¹⁸ 58	6 ¹⁸ 3	20 ¹⁸ 9	11 ¹⁸ 25	10 ¹⁸ 27	14 ¹⁸ 4	13 ¹⁸ 31	S 7
S 8	11 2 43	17 ¹⁸ 21'21	8 ¹⁸ 46	5 ¹⁸ 27	2 ¹⁸ 13	16 ¹⁸ 14	8 ¹⁸ 45	21 ¹⁸ 0	6 ¹⁸ 58	6 ¹⁸ 4	20 ¹⁸ 9	11 ¹⁸ R25	10 ¹⁸ 24	14 ¹⁸ 11	13 ¹⁸ 33	S 8
M 9	11 6 40	18 ¹⁸ 21'25	22 ¹⁸ 8	6 ¹⁸ 30	3 ¹⁸ 20	17 ¹⁸ 0	8 ¹⁸ 54	21 ¹⁸ 1	6 ¹⁸ 58	6 ¹⁸ 5	20 ¹⁸ 9	11 ¹⁸ 25	10 ¹⁸ 21	14 ¹⁸ 17	13 ¹⁸ 34	M 9
T 10	11 10 36	19 ¹⁸ 21'27	6 ¹⁸ 42	7 ¹⁸ 25	4 ¹⁸ 28	17 ¹⁸ 47	9 ¹⁸ 2	21 ¹⁸ 3	6 ¹⁸ 58	6 ¹⁸ 6	20 ¹⁸ 9	11 ¹⁸ 23	10 ¹⁸ 18	14 ¹⁸ 24	13 ¹⁸ 36	T 10
W11	11 14 33	20 ¹⁸ 21'27	19 ¹⁸ 54	8 ¹⁸ 12	5 ¹⁸ 35	18 ¹⁸ 33	9 ¹⁸ 10	21 ¹⁸ 5	6 ¹⁸ 59	6 ¹⁸ 7	20 ¹⁸ 10	11 ¹⁸ 18	10 ¹⁸ 14	14 ¹⁸ 31	13 ¹⁸ 38	W11
T 12	11 18 29	21 ¹⁸ 21'25	3 ¹⁸ II36	8 ¹⁸ 52	6 ¹⁸ 43	19 ¹⁸ 19	9 ¹⁸ 19	21 ¹⁸ 7	6 ¹⁸ R59	6 ¹⁸ 8	20 ¹⁸ 10	11 ¹⁸ 10	10 ¹⁸ 11	14 ¹⁸ 37	13 ¹⁸ 39	T 12
F 13	11 22 26	22 ¹⁸ 21'21	17 ¹⁸ 6	9 ¹⁸ 22	7 ¹⁸ 51	20 ¹⁸ 6	9 ¹⁸ 27	21 ¹⁸ 10	6 ¹⁸ 59	6 ¹⁸ 9	20 ¹⁸ 10	10 ¹⁸ 59	10 ¹⁸ 8	14 ¹⁸ 44	13 ¹⁸ 40	F 13
S 14	11 26 22	23 ¹⁸ 21'15	0 ¹⁸ 42	9 ¹⁸ 44	8 ¹⁸ 59	20 ¹⁸ 52	9 ¹⁸ 35	21 ¹⁸ 12	6 ¹⁸ 58	6 ¹⁸ 10	20 ¹⁸ 10	10 ¹⁸ 47	10 ¹⁸ 5	14 ¹⁸ 51	13 ¹⁸ 42	S 14
S 15	11 30 19	24 ¹⁸ 21'07	13 ¹⁸ 21	9 ¹⁸ 58	10 ¹⁸ 7	21 ¹⁸ 39	9 ¹⁸ 42	21 ¹⁸ 14	6 ¹⁸ 58	6 ¹⁸ 11	20 ¹⁸ 10	10 ¹⁸ 35	10 ¹⁸ 2	14 ¹⁸ 57	13 ¹⁸ 43	S 15
M16	11 34 15	25 ¹⁸ 20'58	26 ¹⁸ 4	10 ¹⁸ R 2	11 ¹⁸ 15	22 ¹⁸ 25	9 ¹⁸ 50	21 ¹⁸ 17	6 ¹⁸ 58	6 ¹⁸ 11	20 ¹⁸ 11	10 ¹⁸ 23	9 ¹⁸ 58	15 ¹⁸ 4	13 ¹⁸ 44	M16
T 17	11 38 12	26 ¹⁸ 20'46	8 ¹⁸ II30	9 ¹⁸ 58	12 ¹⁸ 23	23 ¹⁸ 12	9 ¹⁸ 58	21 ¹⁸ 19	6 ¹⁸ 58	6 ¹⁸ 12	20 ¹⁸ 11	10 ¹⁸ 12	9 ¹⁸ 55	15 ¹⁸ 11	13 ¹⁸ 45	T 17
W18	11 42 8	27 ¹⁸ 20'33	20 ¹⁸ 41	9 ¹⁸ 45	13 ¹⁸ 32	23 ¹⁸ 58	10 ¹⁸ 5	21 ¹⁸ 22	6 ¹⁸ 58	6 ¹⁸ 13	20 ¹⁸ 11	10 ¹⁸ 4	9 ¹⁸ 52	15 ¹⁸ 17	13 ¹⁸ 46	W18
T 19	11 46 5	28 ¹⁸ 20'18	2 ¹⁸ 40	9 ¹⁸ 25	14 ¹⁸ 40	24 ¹⁸ 45	10 ¹⁸ 12	21 ¹⁸ 25	6 ¹⁸ 57	6 ¹⁸ 13	20 ¹⁸ 11	9 ¹⁸ 59	9 ¹⁸ 49	15 ¹⁸ 24	13 ¹⁸ 46	T 19
F 20	11 50 2	29 ¹⁸ 20'01	14 ¹⁸ 31	8 ¹⁸ 57	15 ¹⁸ 49	25 ¹⁸ 31	10 ¹⁸ 19	21 ¹⁸ 28	6 ¹⁸ 57	6 ¹⁸ 14	20 ¹⁸ 12	9 ¹⁸ 57	9 ¹⁸ 46	15 ¹⁸ 31	13 ¹⁸ 47	F 20
S 21	11 53 58	0 ¹⁸ 19'43	26 ¹⁸ 19	8 ¹⁸ 23	16 ¹⁸ 58	26 ¹⁸ 18	10 ¹⁸ 26	21 ¹⁸ 31	6 ¹⁸ 56	6 ¹⁸ 15	20 ¹⁸ 12	9 ¹⁸ D56	9 ¹⁸ 43	15 ¹⁸ 37	13 ¹⁸ 47	S 21
S 22	11 57 55	1 ¹⁸ 19'23	8 ¹⁸ 310	7 ¹⁸ 43	18 ¹⁸ 7	27 ¹⁸ 4	10 ¹⁸ 33	21 ¹⁸ 34	6 ¹⁸ 56	6 ¹⁸ 15	20 ¹⁸ 12	9 ¹⁸ R56	9 ¹⁸ 39	15 ¹⁸ 44	13 ¹⁸ 48	S 22
M23	12 1 51	2 ¹⁸ 19'01	20 ¹⁸ 9	6 ¹⁸ 57	19 ¹⁸ 16	27 ¹⁸ 51	10 ¹⁸ 40	21 ¹⁸ 37	6 ¹⁸ 55	6 ¹⁸ 16	20 ¹⁸ 13	9 ¹⁸ 55	9 ¹⁸ 36	15 ¹⁸ 51	13 ¹⁸ 48	M23
T 24	12 5 48	3 ¹⁸ 18'38	2 ¹⁸ ≈21	6 ¹⁸ 8	20 ¹⁸ 25	28 ¹⁸ 37	10 ¹⁸ 46	21 ¹⁸ 41	6 ¹⁸ 55	6 ¹⁸ 16	20 ¹⁸ 13	9 ¹⁸ 54	9 ¹⁸ 33	15 ¹⁸ 57	13 ¹⁸ 48	T 24
W25	12 9 44	4 ¹⁸ 18'12	14 ¹⁸ 52	5 ¹⁸ 17	21 ¹⁸ 34	29 ¹⁸ 24	10 ¹⁸ 53	21 ¹⁸ 44	6 ¹⁸ 54	6 ¹⁸ 17	20 ¹⁸ 14	9 ¹⁸ 50	9 ¹⁸ 30	16 ¹⁸ 4	13 ¹⁸ R48	W25
T 26	12 13 41	5 ¹⁸ 17'45	27 ¹⁸ 44	4 ¹⁸ 24	22 ¹⁸ 44	0 ¹⁸ 11	10 ¹⁸ 59	21 ¹⁸ 48	6 ¹⁸ 53	6 ¹⁸ 17	20 ¹⁸ 14	9 ¹⁸ 43	9 ¹⁸ 27	16 ¹⁸ 11	13 ¹⁸ 48	T 26
F 27	12 17 37	6 ¹⁸ 17'16	11 ¹⁸ 11	3 ¹⁸ 30	23 ¹⁸ 53	0 ¹⁸ 57	11 ¹⁸ 5	21 ¹⁸ 51	6 ¹⁸ 53	6 ¹⁸ 18	20 ¹⁸ 15	9 ¹⁸ 34	9 ¹⁸ 24	16 ¹⁸ 17	13 ¹⁸ 48	F 27
S 28	12 21 34	7 ¹⁸ 16'45	24 ¹⁸ 40	2 ¹⁸ 37	25 ¹⁸ 2	1 ¹⁸ 44	11 ¹⁸ 11	21 ¹⁸ 55	6 ¹⁸ 52	6 ¹⁸ 18	20 ¹⁸ 15	9 ¹⁸ 23	9 ¹⁸ 20	16 ¹⁸ 24	13 ¹⁸ 48	S 28
S 29	12 25 31	8 ¹⁸ 16'12	8 ¹⁸ 141	1 ¹⁸ 46	26 ¹⁸ 12	2 ¹⁸ 30	11 ¹⁸ 17	21 ¹⁸ 59	6 ¹⁸ 51	6 ¹⁸ 18	20 ¹⁸ 16	9 ¹⁸ 10	9 ¹⁸ 17	16 ¹⁸ 31	13 ¹⁸ 48	S 29
M30	12 29 27	9 ¹⁸ 15'37	22 ¹⁸ 58	0 ¹⁸ 57	27 ¹⁸ 22	3 ¹⁸ 17	11 ¹⁸ 22	22 ¹⁸ 3	6 ¹⁸ 50	6 ¹⁸ 19	20 ¹⁸ 16	8 ¹⁸ 58	9 ¹⁸ 14	16 ¹⁸ 37	13 ¹⁸ 47	M30
T 31	12 33 24	10 ¹⁸ 15'00	7 ¹⁸ 326	0 ¹⁸ 12	28 ¹⁸ ≈32	4 ¹⁸ 11	11 ¹⁸ 27	22 ¹⁸ II 7	6 ¹⁸ 49	6 ¹⁸ 19	20 ¹⁸ II17	8 ¹⁸ 48	9 ¹⁸ 11	16 ¹⁸ 44	13 ¹⁸ 47	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	7s41	4s39	4s58	1s48	On 1	19s10	2n 4	18s30	1s 2	22s54	On17	21n55	1s12	21s18	On 9	22s12
M 2	7 18	On42	5 4	0 57	0 14	19 3	1 59	18 18	1 3	22 54	0 17	21 55	1 11	21 18	0 9	22 11
T 3	6 56	6 3	4 53	0 7	0 27	18 56	1 55	18 5	1 3	22 53	0 17	21 55	1 11	21 18	0 9	22 11
W 4	6 32	11 9	4 24	On42	0 40	18 48	1 50	17 52	1 4	22 53	0 17	21 56	1 11	21 19	0 9	22 11
T 5	6 9	15 40	3 38	1 29	0 54	18 39	1 45	17 39	1 4	22 52	0 17	21 56	1 11	21 19	0 9	22 11
F 6	5 46	19 18	2 40	2 14	1 8	18 30	1 40	17 26	1 4	22 52	0 17	21 56	1 11	21 19	0 9	22 11
S 7	5 23	21 46	1 31	2 57	1 22	18 21	1 35	17 13	1 5	22 51	0 17	21 57	1 10	21 19	0 9	22 11
S 8	4 59	22 53	0 18	3 38	1 36	18 11	1 31	17 0	1 5	22 51	0 17	21 57	1 10	21 19	0 9	22 11
M 9	4 36	22 32	On57	4 15	1 50	18 0	1 26	16 46	1 6	22 50	0 17	21 57	1 10	21 19	0 9	22 11
T 10	4 13	20 48	2 7	4 50	2 3	17 49	1 21	16 32	1 6	22 50	0 17	21 58	1 10	21 19	0 9	22 11
W11	3 49	17 50	3 9	5 20	2 16	17 37	1 16	16 18	1 6	22 49	0 17	21 58	1 9	21 19	0 9	22 11
T 12	3 25	13 54	4 0	5 48	2 29	17 25	1 12	16 4	1 7	22 49	0 17	21 58	1 9	21 19	0 9	22 11
F 13	3 2	9 20	4 36	6 11	2 41	17 13	1 7	15 50	1 7	22 48	0 17	21 59	1 9	21 19	0 9	22 11
S 14	2 38	4 23	4 57	6 29	2 52	17 0	1 2	15 36	1 8	22 48	0 17	21 59	1 9	21 19	0 9	22 11
S 15	2 14	0s39	5 1	6 44	3 2	16 46	0 58	15 21	1 8	22 47	0 17	21 59	1 9	21 19	0 9	22 11
M16	1 51	5 33	4 50	6 54	3 11	16 32	0 53	15 6	1 8	22 47	0 17	22 0	1 8	21 19	0 9	22 10
T 17	1 27	10 7	4 26	6 59	3 18	16 18	0 49	14 51	1 9	22 46	0 17	22 0	1 8	21 19	0 9	22 10
W18	1 3	14 13	3 50	7 0	3 24	16 3	0 44	14 36	1 9	22 46	0 16	22 1	1 8	21 19	0 9	22 10
T 19	0 40	17 40	3 4	6 56	3 29	15 47	0 40	14 21	1 9	22 45	0 16	22 1	1 8	21 19	0 9	22 10
F 20	0 16	20 22	2 10	6 47	3 31	15 31	0 35	14 6	1 10	22 45	0 16	22 1	1 8	21 19	0 9	22 10
S 21	On 8	22 11	1 12	6 34	3 32	15 15	0 31	13 50	1 10	22 44	0 16	22 2	1 7	21 18	0 9	22 10
S 22	0 32	23 1	0 9	6 17	3 31	14 58	0 26	13 35	1 10	22 44	0 16	22 2	1 7	21 18	0 9	22 1

ASTRODIENST EPHEMERIS for the year 2150

geocentric

APRIL 2150

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 37 20	11°14'21"	21°57'	29°R31	29°41'	4°50'	11°33'	22°11'	6°R48	6°19'	20°17'	8°R40	9°58'	16°51'	13°R46	W 1
T 2	12 41 17	12°13'39"	6°12'25"	28°54'	0°51'	5°37'	11°38'	22°15'	6°47'	6°19'	20°18'	8°34'	9°4'	16°57'	13°45'	T 2
F 3	12 45 13	13°12'56"	20°47'	28°23'	2°1'	6°23'	11°43'	22°19'	6°46'	6°20'	20°19'	8°32'	9°1'	17°4'	13°45'	F 3
S 4	12 49 10	14°12'10"	4°59'	27°57'	3°11'	7°10'	11°47'	22°24'	6°45'	6°20'	20°19'	8°31'	8°58'	17°10'	13°44'	S 4
S 5	12 53 6	15°11'22"	19°0'	27°37'	4°21'	7°56'	11°52'	22°28'	6°44'	6°20'	20°20'	8°31'	8°55'	17°17'	13°43'	S 5
M 6	12 57 3	16°10'31"	2°49'	27°22'	5°32'	8°43'	11°56'	22°33'	6°42'	6°20'	20°21'	8°30'	8°52'	17°24'	13°42'	M 6
T 7	13 1 0	17°9'38"	16°28'	27°13'	6°42'	9°30'	12°1'	22°37'	6°41'	6°20'	20°21'	8°28'	8°49'	17°30'	13°40'	T 7
W 8	13 4 56	18°8'42"	29°56'	27°D 9	7°52'	10°16'	12°5'	22°42'	6°40'	6°R20	20°22'	8°23'	8°45'	17°37'	13°39'	W 8
T 9	13 8 53	19°7'45"	13°13'	27°11'	9°3'	11°3'	12°9'	22°47'	6°38'	6°20'	20°23'	8°14'	8°42'	17°44'	13°38'	T 9
F 10	13 12 49	20°6'45"	26°19'	27°18'	10°13'	11°49'	12°12'	22°52'	6°37'	6°20'	20°24'	8°4'	8°39'	17°50'	13°36'	F 10
S 11	13 16 46	21°5'43"	9°14'	27°31'	11°23'	12°36'	12°16'	22°57'	6°35'	6°20'	20°24'	7°51'	8°36'	17°57'	13°34'	S 11
S 12	13 20 42	22°4'39"	21°56'	27°48'	12°34'	13°22'	12°19'	23°2'	6°34'	6°20'	20°25'	7°38'	8°33'	18°4'	13°33'	S 12
M13	13 24 39	23°3'32"	4°12'25"	28°10'	13°45'	14°9'	12°23'	23°7'	6°32'	6°20'	20°26'	7°26'	8°29'	18°10'	13°31'	M13
T 14	13 28 35	24°2'24"	16°41'	28°37'	14°55'	14°55'	12°26'	23°12'	6°31'	6°19'	20°27'	7°15'	8°26'	18°17'	13°29'	T 14
W15	13 32 32	25°1'15"	28°46'	29°8'	16°6'	15°42'	12°28'	23°17'	6°29'	6°19'	20°28'	7°7'	8°23'	18°24'	13°27'	W15
T 16	13 36 29	26°0'03"	10°42'	29°43'	17°17'	16°28'	12°31'	23°22'	6°27'	6°19'	20°28'	7°1'	8°20'	18°30'	13°25'	T 16
F 17	13 40 25	26°58'49"	22°31'	0°23'	18°28'	17°15'	12°34'	23°28'	6°26'	6°19'	20°29'	6°58'	8°17'	18°37'	13°23'	F 17
S 18	13 44 22	27°57'34"	4°19'	1°5'	19°39'	18°2'	12°36'	23°33'	6°24'	6°18'	20°30'	6°D57'	8°14'	18°44'	13°21'	S 18
S 19	13 48 18	28°56'17"	16°9'	1°52'	20°49'	18°48'	12°38'	23°39'	6°22'	6°18'	20°31'	6°57'	8°10'	18°50'	13°18'	S 19
M20	13 52 15	29°54'58"	2°42'	22°0'	19°34'	12°40'	12°40'	23°45'	6°20'	6°18'	20°32'	6°R58'	8°7'	18°57'	13°16'	M20
T 21	13 56 11	0°53'39"	10°18'	3°35'	23°11'	20°21'	12°42'	23°50'	6°19'	6°17'	20°33'	6°57'	8°4'	19°4'	13°13'	T 21
W22	14 0 8	1°52'16"	22°48'	4°31'	24°23'	21°7'	12°43'	23°56'	6°17'	6°17'	20°34'	6°55'	8°1'	19°10'	13°11'	W22
T 23	14 4 4	2°50'53"	5°42'	5°30'	25°34'	21°54'	12°45'	24°2'	6°15'	6°16'	20°35'	6°51'	7°58'	19°17'	13°8'	T 23
F 24	14 8 1	3°49'27"	19°1'	6°32'	26°45'	22°40'	12°46'	24°8'	6°13'	6°16'	20°36'	6°44'	7°55'	19°24'	13°5'	F 24
S 25	14 11 57	4°48'00"	2°48'	7°37'	27°56'	23°27'	12°47'	24°14'	6°11'	6°15'	20°37'	6°36'	7°51'	19°30'	13°3'	S 25
S 26	14 15 54	5°46'31"	17°0'	8°44'	29°7'	24°13'	12°48'	24°20'	6°9'	6°15'	20°38'	6°26'	7°48'	19°37'	13°0'	S 26
M27	14 19 51	6°45'01"	1°35'	9°54'	0°19'	24°59'	12°48'	24°26'	6°7'	6°14'	20°39'	6°17'	7°45'	19°43'	12°57'	M27
T 28	14 23 47	7°43'28"	16°23'	11°6'	1°30'	25°46'	12°49'	24°32'	6°5'	6°13'	20°40'	6°8'	7°42'	19°50'	12°54'	T 28
W29	14 27 44	8°41'54"	1°18'	12°21'	2°41'	26°32'	12°49'	24°38'	6°3'	6°13'	20°41'	6°2'	7°39'	19°57'	12°51'	W29
T 30	14 31 40	9°40'18"	16°10'	13°38'	3°53'	27°18'	12°R49'	24°44'	6°1'	6°12'	20°42'	5°58'	7°35'	20°3'	12°47'	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	4n27	14n42	3s40	1n30	1n51	11s48	0s15	10s52	1s14	22s39	0n16	22n 6	1s 5	21s17	0n 9	22s10
T 2	4 50	18 43	2 41	1 2	1 35	11 27	0 18	10 35	1 14	22 39	0 16	22 7	1 5	21 17	0 9	22 10
F 3	5 13	21 34	1 32	0 35	1 20	11 5	0 22	10 18	1 14	22 39	0 16	22 7	1 5	21 17	0 9	22 10
S 4	5 36	23 1	0 19	0 10	1 4	10 44	0 26	10 1	1 14	22 38	0 15	22 8	1 5	21 17	0 9	22 10
S 5	5 59	22 59	0n55	0s13	0 48	10 22	0 29	9 44	1 15	22 38	0 15	22 8	1 4	21 16	0 9	22 10
M 6	6 21	21 32	2 5	0 33	0 32	9 59	0 33	9 27	1 15	22 38	0 15	22 9	1 4	21 16	0 9	22 9
T 7	6 44	18 51	3 6	0 51	0 17	9 36	0 36	9 10	1 15	22 37	0 15	22 9	1 4	21 16	0 9	22 9
W 8	7 7	15 10	3 56	1 6	0 2	9 13	0 40	8 52	1 15	22 37	0 15	22 9	1 4	21 16	0 9	22 9
T 9	7 29	10 47	4 33	1 19	0s13	8 50	0 43	8 35	1 15	22 37	0 15	22 10	1 4	21 15	0 9	22 9
F 10	7 51	5 58	4 55	1 29	0 27	8 27	0 46	8 17	1 16	22 37	0 15	22 10	1 3	21 15	0 9	22 9
S 11	8 13	0 57	5 1	1 36	0 40	8 3	0 49	8 0	1 16	22 36	0 15	22 11	1 3	21 15	0 9	22 9
S 12	8 36	4s 1	4 52	1 41	0 53	7 39	0 52	7 42	1 16	22 36	0 15	22 11	1 3	21 15	0 9	22 9
M13	8 57	8 46	4 29	1 43	1 5	7 14	0 55	7 24	1 16	22 36	0 15	22 12	1 3	21 15	0 9	22 9
T 14	9 19	13 5	3 53	1 43	1 17	6 50	0 58	7 6	1 16	22 36	0 15	22 12	1 3	21 14	0 9	22 9
W15	9 41	16 48	3 8	1 41	1 28	6 25	1 1	6 49	1 17	22 35	0 15	22 13	1 3	21 14	0 9	22 9
T 16	10 2	19 48	2 15	1 36	1 38	6 0	1 4	6 31	1 17	22 35	0 15	22 13	1 2	21 14	0 9	22 9
F 17	10 23	17 57	1 16	1 30	1 47	5 35	1 7	6 13	1 17	22 35	0 15	22 13	1 2	21 13	0 9	22 9
S 18	10 44	23 7	0 14	1 21	1 56	5 9	1 9	5 55	1 17	22 35	0 15	22 14	1 2	21 13	0 9	22 9
S 19	11 5	23 15	0s49	1 10	2 4	4 44	1 12	5 37	1 17	22 35	0 14	22 14	1 2	21 13	0 9	22 9
M20	11 26	22 19	1 50	0 57	2 12	4 18	1 14	5 19	1 17	22 35	0 14	22 15	1 2	21 13	0 9	22 9
T 21	11 47	20 20	2 48	0 42	2 19	3 52	1 16	5 0	1 17	22 35	0 14	22 15	1 1	21 12	0 9	22 9
W22	12 7	17 21	3 39	0 25	2 25	3 26	1 19	4 42	1 18	22 35	0 14	22 16	1 1	21 12	0 9	22 9
T 23	12 27	13 27	4 21	0 7	2 30	3 0	1 21	4 24	1 18	22 34	0 14	22 16	1 1	21 12	0 9	22 9
F 24	12 47	8 47	4 50	0n13	2 35	2 34	1 23	4 6	1 18	22 34	0 14	22 16	1 1	21 11	0 9	22 9
S 25	13 7	3 32	5 4	0 35	2 39	2 7	1 25	3 47	1 18	22 34	0 14	22 17	1 1	21 11	0 9	22 9
S 26	13 26	2n 4	4 59	0 58	2 43	1 41	1 27	3 29	1 18	22 34	0 14	22 17	1 1	21 11	0 9	22 9
M27	13 45	7 42	4 36	1 22	2 46	1 14	1 29	3 11	1 18	22 34	0 14	22 18	1 1	21 10	0 9	22 9
T 28	14 4	13 0	3 53	1 48	2 48	0 47	1 30	2 53	1 18	22 34	0 14	22 18	1 0	21 10	0 9	22 9
W29	14 23	17 33	2 55	2 58	2 50	0 21	1 32	2 34	1 18	22 35	0 14	22 18	1 0	21 9	0 9	22 9
T 30	14n42	20n59	1s44	2n44	2s51	0n 6	1s34	2s16	1s18	22s35	0n14	22n19	1s 0	21s 9	0n 9	22s 9

Julian Day Number = 2506421.5, Delta T = 121.83 sec

Ecliptic obliquity = 23°25'10", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°50'23", Lahiri = 25°57'23"

ASTRODIENST EPHEMERIS for the year 2150

geocentric

MAY 2150

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 35 37	10♂38'40	0♂53	14♂57	5♂ 4	28♂ 5	12°R49	24♂51	5°R58	6°R11	20♂43	5°D56	7♂32	20♂10	12°R44	F 1
S 2	14 39 33	11°37'00	15°20	16°18	6°15	28°51	12♂48	24°57	5♂56	6♂11	20°44	5♂57	7°29	20°17	12♂41	S 2
S 3	14 43 30	12°35'17	29°30	17°41	7°27	29°37	12°48	25° 3	5°54	6°10	20°46	5°58	7°26	20°23	12°37	S 3
M 4	14 47 27	13°33'33	13♂22	19° 7	8°38	0♂23	12°47	25°10	5°52	6° 9	20°47	5°R58	7°23	20°30	12°34	M 4
T 5	14 51 23	14°31'47	26°55	20°34	9°50	1°10	12°46	25°16	5°50	6° 8	20°48	5°57	7°20	20°37	12°31	T 5
W 6	14 55 20	15°29'58	10♂12	22° 3	11° 1	1°56	12°45	25°23	5°47	6° 7	20°49	5°55	7°16	20°43	12°27	W 6
T 7	14 59 16	16°28'07	23°13	23°35	12°13	2°42	12°44	25°30	5°45	6° 7	20°50	5°50	7°13	20°50	12°23	T 7
F 8	15 3 13	17°26'15	6♂ 1	25° 8	13°25	3°28	12°42	25°36	5°43	6° 6	20°51	5°43	7°10	20°57	12°20	F 8
S 9	15 7 9	18°24'21	18°36	26°44	14°36	4°14	12°41	25°43	5°40	6° 5	20°53	5°35	7° 7	21° 3	12°16	S 9
S 10	15 11 6	19°22'24	1♂ 0	28°21	15°48	5° 0	12°39	25°50	5°38	6° 4	20°54	5°26	7° 4	21°10	12°12	S 10
M 11	15 15 2	20°20'27	13°14	0♂ 0	17° 0	5°46	12°37	25°57	5°36	6° 3	20°55	5°18	7° 1	21°17	12° 8	M 11
T 12	15 18 59	21°18'27	25°19	1°41	18°11	6°32	12°35	26° 4	5°33	6° 2	20°56	5°11	6°57	21°23	12° 5	T 12
W 13	15 22 55	22°16'26	7♂16	3°24	19°23	7°18	12°32	26°11	5°31	6° 1	20°57	5° 6	6°54	21°30	12° 1	W 13
T 14	15 26 52	23°14'24	19° 7	5°10	20°35	8° 4	12°30	26°18	5°28	6° 0	20°59	5° 3	6°51	21°37	11°57	T 14
F 15	15 30 49	24°12'20	0♂55	6°57	21°47	8°50	12°27	26°25	5°26	5°59	21° 0	5°D 1	6°48	21°43	11°53	F 15
S 16	15 34 45	25°10'14	12°42	8°46	22°59	9°36	12°24	26°32	5°24	5°57	21° 1	5° 1	6°45	21°50	11°49	S 16
S 17	15 38 42	26° 8'08	24°33	10°37	24°10	10°22	12°21	26°39	5°21	5°56	21° 3	5° 3	6°41	21°57	11°45	S 17
M 18	15 42 38	27° 6'00	6♂32	12°30	25°22	11° 7	12°18	26°46	5°19	5°55	21° 4	5° 4	6°38	22° 3	11°40	M 18
T 19	15 46 35	28° 3'51	18°43	14°25	26°34	11°53	12°14	26°53	5°16	5°54	21° 5	5° 6	6°35	22°10	11°36	T 19
W 20	15 50 31	29° 1'40	1♂11	16°21	27°46	12°39	12°11	27° 0	5°14	5°53	21° 6	5°R 6	6°32	22°16	11°32	W 20
T 21	15 54 28	29°59'29	14° 2	18°20	28°58	13°24	12° 7	27° 7	5°11	5°52	21° 8	5° 5	6°29	22°23	11°28	T 21
F 22	15 58 24	0♂57'16	27°18	20°21	0♂10	14°10	12° 3	27°15	5° 9	5°50	21° 9	5° 3	6°26	22°30	11°24	F 22
S 23	16 2 21	1°55'02	11♂ 2	22°23	1°22	14°56	11°59	27°22	5° 6	5°49	21°10	4°59	6°22	22°36	11°20	S 23
S 24	16 6 18	2°52'47	25°13	24°27	2°34	15°41	11°55	27°29	5° 4	5°48	21°12	4°55	6°19	22°43	11°15	S 24
M 25	16 10 14	3°50'31	9♂50	26°33	3°46	16°27	11°50	27°37	5° 1	5°47	21°13	4°50	6°16	22°50	11°11	M 25
T 26	16 14 11	4°48'14	24°46	28°40	4°58	17°12	11°46	27°44	4°59	5°45	21°14	4°46	6°13	22°56	11° 7	T 26
W 27	16 18 7	5°45'56	9♂53	0♂49	6°10	17°58	11°41	27°52	4°56	5°44	21°16	4°43	6°10	23° 3	11° 2	W 27
T 28	16 22 4	6°43'36	25° 1	2°58	7°22	18°43	11°36	27°59	4°54	5°43	21°17	4°42	6° 7	23°10	10°58	T 28
F 29	16 26 0	7°41'16	10♂ 2	5° 9	8°35	19°29	11°31	28° 7	4°51	5°41	21°18	4°D41	6° 3	23°16	10°54	F 29
S 30	16 29 57	8°38'53	24°48	7°20	9°47	20°14	11°26	28°14	4°49	5°40	21°20	4°42	6° 0	23°23	10°49	S 30
S 31	16 33 54	9♂36'30	9♂13	9♂32	10♂59	20♂59	11♂20	28♂22	4♂46	5♂38	21♂21	4♂44	5♂57	23♂30	10♂45	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	15n 0	22n58	0s27	3n14	2s52	0n33	1s35	1s58	1s18	22s35	0n14	22n19	1s 0	21s 9	0n 9	F 1
S 2	15 18	23 22	0n50	3 45	2 52	1 0	1 37	1 39	1 18	22 35	0 13	22 20	1 0	21 8	0 9	S 2
S 3	15 36	22 15	2 3	4 18	2 51	1 27	1 38	1 21	1 18	22 35	0 13	22 20	1 0	21 8	0 9	S 3
M 4	15 54	19 47	3 7	4 51	2 50	1 54	1 39	1 2	1 18	22 35	0 13	22 20	0 59	21 8	0 8	M 4
T 5	16 11	16 17	3 59	5 25	2 49	2 21	1 40	0 44	1 18	22 35	0 13	22 21	0 59	21 7	0 8	T 5
W 6	16 28	12 1	4 37	6 1	2 46	2 48	1 41	0 26	1 18	22 35	0 13	22 21	0 59	21 7	0 8	W 6
T 7	16 45	7 17	5 0	6 37	2 43	3 15	1 42	0 7	1 18	22 36	0 13	22 22	0 59	21 6	0 8	T 7
F 8	17 1	2 19	5 1	7 14	2 40	3 42	1 43	0n11	1 18	22 36	0 13	22 22	0 59	21 6	0 8	F 8
S 9	17 18	2s40	5 0	7 52	2 36	4 9	1 44	0 29	1 18	22 36	0 13	22 22	0 59	21 6	0 8	S 9
S 10	17 33	7 28	4 38	8 31	2 32	4 36	1 45	0 47	1 18	22 36	0 13	22 23	0 59	21 5	0 8	S 10
M 11	17 49	11 56	4 3	9 10	2 27	5 3	1 46	1 6	1 18	22 37	0 13	22 23	0 58	21 5	0 8	M 11
T 12	18 4	15 52	3 18	9 50	2 21	5 29	1 46	1 24	1 18	22 37	0 13	22 23	0 58	21 4	0 8	T 12
W 13	18 19	19 7	2 25	10 31	2 15	5 56	1 47	1 42	1 18	22 37	0 12	22 24	0 58	21 4	0 8	W 13
T 14	18 34	21 33	1 25	11 12	2 9	6 23	1 47	2 0	1 18	22 38	0 12	22 24	0 58	21 4	0 8	T 14
F 15	18 48	23 3	0 22	11 54	2 2	6 49	1 47	2 18	1 18	22 38	0 12	22 24	0 58	21 3	0 8	F 15
S 16	19 3	23 30	0s42	12 36	1 54	7 16	1 48	2 37	1 18	22 38	0 12	22 25	0 58	21 3	0 8	S 16
S 17	19 16	22 54	1 44	13 18	1 46	7 42	1 48	2 55	1 17	22 39	0 12	22 25	0 58	21 2	0 8	S 17
M 18	19 30	21 16	2 43	14 1	1 38	8 8	1 48	3 13	1 17	22 39	0 12	22 25	0 57	21 2	0 8	M 18
T 19	19 43	18 37	3 36	14 43	1 29	8 34	1 48	3 31	1 17	22 40	0 12	22 26	0 57	21 1	0 8	T 19
W 20	19 55	15 5	4 20	15 26	1 20	9 0	1 48	3 49	1 17	22 40	0 12	22 26	0 57	21 1	0 8	W 20
T 21	20 8	10 46	4 52	16 8	1 11	9 25	1 48	4 6	1 17	22 40	0 12	22 26	0 57	21 1	0 8	T 21
F 22	20 20	5 49	5 10	16 50	1 1	9 51	1 47	4 24	1 17	22 41	0 12	22 26	0 57	21 0	0 8	F 22
S 23	20 32	0 25	5 11	17 32	0 51	10 16	1 47	4 42	1 17	22 41	0 12	22 27	0 57	21 0	0 8	S 23
S 24	20 43	5n12	4 53	18 12	0 41	10 41	1 47	5 0	1 16	22 42	0 11	22 27	0 57	20 59	0 8	S 24
M 25	20 54	10 41	4 16	18 52	0 31	11 6	1 46	5 17	1 16	22 42	0 11	22 27	0 57	20 59	0 8	M 25
T 26	21 5	15 41	3 22	19 31	0 20	11 31	1 46	5 35	1 16	22 43	0 11	22 27	0 57	20 58	0 8	T 26
W 27	21 15	19 44	2 12	20 9	0 9	11 55	1 45	5 52	1 16	22 43	0 11	22 28	0 56	20 58	0 8	W 27
T 28	21 25	22 27	0 53	20 45	0n 1	12 19	1 44	6 10	1 16	22 44	0 11	22 28	0 56	20 58	0 8	T 28
F 29	21 34	23 32	0n29	21 20	0 12	12 43	1 43	6 27	1 15	22 44	0 11	22 28	0 56	20 57	0 8	F 29
S 30	21 44	22 56	1 48	21 53	0 22	13 7	1 43	6 44	1 15	22 45	0 11	22 28	0 56	20 57	0 8	S 30
S 31	21n52	20n48	2n59	22n24	0n32	13n30	1s42	7n 1	1s15	22s46	0n11	22n29	0s56	20s56	0n 8	S 31

Julian Day Number = 2506451.5, Delta T = 121.89 sec
 Ecliptic obliquity = 23°25'10, Nutation = - 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°50'27, Lahiri = 25°57'28

ASTRODIENST EPHEMERIS for the year 2150

geocentric

JUNE 2150

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 37 50	10 ^{II} 34'05	23 ^Ω 15	11 ^{II} 44	12 [♂] 11	21 [♀] 44	11 [♂] 15	28 ^{II} 29	4 [♂] R44	5 [♂] R37	21 ^{II} 23	4 [♂] 45	5 [♂] 54	23 [♂] 36	10 [♂] R41	M 1
T 2	16 41 47	11 [♂] 31'38	6 [♂] 53	13 [♂] 56	13 [♂] 23	22 [♂] 29	11 [♂] 9	28 [♂] 37	4 [♂] 41	5 [♂] 36	21 [♂] 24	4 [♂] R46	5 [♂] 51	23 [♂] 43	10 [♂] 36	T 2
W 3	16 45 43	12 [♂] 29'10	20 [♂] 8	16 [♂] 8	14 [♂] 36	23 [♂] 15	11 [♂] 3	28 [♂] 44	4 [♂] 39	5 [♂] 34	21 [♂] 25	4 [♂] 46	5 [♂] 47	23 [♂] 50	10 [♂] 32	W 3
T 4	16 49 40	13 [♂] 26'41	3 [♂] 3	18 [♂] 19	15 [♂] 48	24 [♂] 0	10 [♂] 58	28 [♂] 52	4 [♂] 36	5 [♂] 33	21 [♂] 27	4 [♂] 44	5 [♂] 44	23 [♂] 56	10 [♂] 28	T 4
F 5	16 53 36	14 [♂] 24'10	15 [♂] 41	20 [♂] 29	17 [♂] 0	24 [♂] 45	10 [♂] 52	29 [♂] 0	4 [♂] 34	5 [♂] 31	21 [♂] 28	4 [♂] 42	5 [♂] 41	24 [♂] 3	10 [♂] 23	F 5
S 6	16 57 33	15 [♂] 21'38	28 [♂] 4	22 [♂] 38	18 [♂] 12	25 [♂] 30	10 [♂] 45	29 [♂] 7	4 [♂] 31	5 [♂] 30	21 [♂] 29	4 [♂] 40	5 [♂] 38	24 [♂] 9	10 [♂] 19	S 6
S 7	17 1 29	16 [♂] 19'05	10 [♂] 16	24 [♂] 45	19 [♂] 25	26 [♂] 14	10 [♂] 39	29 [♂] 15	4 [♂] 29	5 [♂] 28	21 [♂] 31	4 [♂] 37	5 [♂] 35	24 [♂] 16	10 [♂] 15	S 7
M 8	17 5 26	17 [♂] 16'31	22 [♂] 18	26 [♂] 51	20 [♂] 37	26 [♂] 59	10 [♂] 33	29 [♂] 23	4 [♂] 27	5 [♂] 27	21 [♂] 32	4 [♂] 34	5 [♂] 32	24 [♂] 23	10 [♂] 11	M 8
T 9	17 9 23	18 [♂] 13'56	4 [♂] 13	28 [♂] 56	21 [♂] 49	27 [♂] 44	10 [♂] 26	29 [♂] 30	4 [♂] 24	5 [♂] 25	21 [♂] 34	4 [♂] 32	5 [♂] 28	24 [♂] 29	10 [♂] 6	T 9
W10	17 13 19	19 [♂] 11'20	16 [♂] 3	0 [♂] 58	23 [♂] 2	28 [♂] 29	10 [♂] 20	29 [♂] 38	4 [♂] 22	5 [♂] 24	21 [♂] 35	4 [♂] 30	5 [♂] 25	24 [♂] 36	10 [♂] 2	W10
T 11	17 17 16	20 [♂] 8'43	27 [♂] 52	2 [♂] 59	24 [♂] 14	29 [♂] 14	10 [♂] 13	29 [♂] 46	4 [♂] 19	5 [♂] 22	21 [♂] 36	4 [♂] 30	5 [♂] 22	24 [♂] 43	9 [♂] 58	T 11
F 12	17 21 12	21 [♂] 6'05	9 [♂] 30	4 [♂] 57	25 [♂] 26	29 [♂] 58	10 [♂] 6	29 [♂] 54	4 [♂] 17	5 [♂] 21	21 [♂] 38	4 [♂] D30	5 [♂] 19	24 [♂] 49	9 [♂] 54	F 12
S 13	17 25 9	22 [♂] 3'27	21 [♂] 30	6 [♂] 53	26 [♂] 39	0 [♂] 43	9 [♂] 59	0 [♂] 1	4 [♂] 15	5 [♂] 19	21 [♂] 39	4 [♂] 30	5 [♂] 16	24 [♂] 56	9 [♂] 50	S 13
S 14	17 29 5	23 [♂] 0'47	3 [♂] 25	8 [♂] 47	27 [♂] 51	1 [♂] 27	9 [♂] 52	0 [♂] 9	4 [♂] 12	5 [♂] 17	21 [♂] 41	4 [♂] 31	5 [♂] 13	25 [♂] 3	9 [♂] 45	S 14
M15	17 33 2	23 [♂] 58'08	15 [♂] 28	10 [♂] 38	29 [♂] 4	2 [♂] 12	9 [♂] 45	0 [♂] 17	4 [♂] 10	5 [♂] 16	21 [♂] 42	4 [♂] 32	5 [♂] 9	25 [♂] 9	9 [♂] 41	M15
T 16	17 36 58	24 [♂] 55'27	27 [♂] 43	12 [♂] 27	0 [♂] 16	2 [♂] 56	9 [♂] 38	0 [♂] 25	4 [♂] 8	5 [♂] 14	21 [♂] 43	4 [♂] 33	5 [♂] 6	25 [♂] 16	9 [♂] 37	T 16
W17	17 40 55	25 [♂] 52'47	10 [♂] 13	14 [♂] 14	1 [♂] 29	3 [♂] 41	9 [♂] 31	0 [♂] 33	4 [♂] 6	5 [♂] 13	21 [♂] 45	4 [♂] 34	5 [♂] 3	25 [♂] 23	9 [♂] 33	W17
T 18	17 44 52	26 [♂] 50'06	23 [♂] 2	15 [♂] 58	2 [♂] 41	4 [♂] 25	9 [♂] 24	0 [♂] 40	4 [♂] 3	5 [♂] 11	21 [♂] 46	4 [♂] R34	5 [♂] 0	25 [♂] 29	9 [♂] 29	T 18
F 19	17 48 48	27 [♂] 47'24	6 [♂] Y14	17 [♂] 40	3 [♂] 54	5 [♂] 9	9 [♂] 16	0 [♂] 48	4 [♂] 1	5 [♂] 9	21 [♂] 48	4 [♂] 34	4 [♂] 57	25 [♂] 36	9 [♂] 25	F 19
S 20	17 52 45	28 [♂] 44'42	19 [♂] 50	19 [♂] 19	5 [♂] 6	5 [♂] 53	9 [♂] 9	0 [♂] 56	3 [♂] 59	5 [♂] 8	21 [♂] 49	4 [♂] 34	4 [♂] 53	25 [♂] 43	9 [♂] 21	S 20
S 21	17 56 41	29 [♂] 42'00	3 [♂] 53	20 [♂] 56	6 [♂] 19	6 [♂] 37	9 [♂] 2	1 [♂] 4	3 [♂] 57	5 [♂] 6	21 [♂] 50	4 [♂] 33	4 [♂] 50	25 [♂] 49	9 [♂] 17	S 21
M22	18 0 38	0 [♂] 39'18	18 [♂] 20	22 [♂] 30	7 [♂] 32	7 [♂] 21	8 [♂] 54	1 [♂] 12	3 [♂] 55	5 [♂] 5	21 [♂] 52	4 [♂] 33	4 [♂] 47	25 [♂] 56	9 [♂] 14	M22
T 23	18 4 34	1 [♂] 36'36	3 [♂] II 9	24 [♂] 2	8 [♂] 44	8 [♂] 5	8 [♂] 46	1 [♂] 19	3 [♂] 52	5 [♂] 3	21 [♂] 53	4 [♂] 32	4 [♂] 44	26 [♂] 2	9 [♂] 10	T 23
W24	18 8 31	2 [♂] 33'53	18 [♂] 12	25 [♂] 31	9 [♂] 57	8 [♂] 49	8 [♂] 39	1 [♂] 27	3 [♂] 50	5 [♂] 1	21 [♂] 55	4 [♂] 32	4 [♂] 41	26 [♂] 9	9 [♂] 6	W24
T 25	18 12 27	3 [♂] 31'10	3 [♂] 23	26 [♂] 58	11 [♂] 10	9 [♂] 33	8 [♂] 31	1 [♂] 35	3 [♂] 48	5 [♂] 0	21 [♂] 56	4 [♂] D32	4 [♂] 38	26 [♂] 16	9 [♂] 2	T 25
F 26	18 16 24	4 [♂] 28'26	18 [♂] 31	28 [♂] 22	12 [♂] 22	10 [♂] 17	8 [♂] 24	1 [♂] 43	3 [♂] 46	4 [♂] 58	21 [♂] 57	4 [♂] R32	4 [♂] 34	26 [♂] 22	8 [♂] 59	F 26
S 27	18 20 21	5 [♂] 25'42	3 [♂] Ω27	29 [♂] 43	13 [♂] 35	11 [♂] 1	8 [♂] 16	1 [♂] 51	3 [♂] 44	4 [♂] 57	21 [♂] 59	4 [♂] 32	4 [♂] 31	26 [♂] 29	8 [♂] 55	S 27
S 28	18 24 17	6 [♂] 22'58	18 [♂] 4	1 [♂] Ω 2	14 [♂] 48	11 [♂] 44	8 [♂] 8	1 [♂] 59	3 [♂] 42	4 [♂] 55	22 [♂] 0	4 [♂] 32	4 [♂] 28	26 [♂] 36	8 [♂] 52	S 28
M29	18 28 14	7 [♂] 20'13	2 [♂] η18	2 [♂] 18	16 [♂] 1	12 [♂] 28	8 [♂] 1	2 [♂] 6	3 [♂] 40	4 [♂] 53	22 [♂] 1	4 [♂] 32	4 [♂] 25	26 [♂] 42	8 [♂] 48	M29
T 30	18 32 10	8 [♂] 27'27	16 [♂] η 5	3 [♂] Ω31	17 [♂] II13	13 [♂] 12	7 [♂] 53	2 [♂] 14	3 [♂] 38	4 [♂] 52	22 [♂] II 3	4 [♂] 31	4 [♂] 22	26 [♂] 49	8 [♂] 45	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	22n 1	17n29	3n56	22n52	0n42	13n53	1s41	7n19	1s15	22s46	0n11	22n29	0s56	20s56	0n 8	22s10	1n 8	14n24	8s46	23n20	23n17	22s10	17s 6	4n59	
T 2	22 9	13 17	4 39	23 19	0 52	14 16	1 40	7 36	1 14	22 47	0 10	22 29	0 56	20 55	0 8	22 10	1 8	14 24	8 46	23 20	23 17	22 11	17 5	4 59	
W 3	22 16	8 35	5 5	23 43	1 1	14 38	1 39	7 52	1 14	22 47	0 10	22 29	0 56	20 55	0 8	22 10	1 8	14 24	8 46	23 20	23 18	22 12	17 4	4 59	
T 4	22 24	3 36	5 15	24 4	1 10	15 0	1 37	8 9	1 14	22 48	0 10	22 29	0 56	20 54	0 8	22 10	1 8	14 24	8 46	23 20	23 18	22 14	17 3	5 0	
F 5	22 31	1s24	5 9	24 22	1 18	15 22	1 36	8 26	1 14	22 49	0 10	22 30	0 55	20 54	0 8	22 10	1 8	14 24	8 45	23 20	23 18	22 15	17 3	5 0	
S 6	22 37	6 16	4 49	24 38	1 25	15 43	1 35	8 43	1 13	22 49	0 10	22 30	0 55	20 54	0 8	22 10	1 8	14 24	8 45	23 20	23 18	22 16	17 2	5 0	
S 7	22 43	10 49	4 17	24 51	1 32	16 4	1 33	8 59	1 13	22 50	0 10	22 30	0 55	20 53	0 8	22 11	1 8	14 25	8 45	23 20	23 18	22 17	17 1	5 0	
M 8	22 49	14 54	3 33	25 2	1 39	16 25	1 32	9 16	1 13	22 50	0 10	22 30	0 55	20 53	0 8	22 11	1 8	14 25	8 45	23 20	23 18	22 18	17 0	5 0	
T 9	22 54	18 21	2 40	25 9	1 44	16 45	1 31	9 32	1 12	22 51	0 10	22 30	0 55	20 52	0 8	22 11	1 8	14 25	8 45	23 21	23 18	22 19	17 0	5 0	
W10	22 59	21 2	1 40	25 14	1 49	17 5	1 29	9 48	1 12	22 52	0 9	22 30	0 55	20 52	0 8	22 11	1 8	14 25	8 45	23 21	23 19	22 21	16 59	5 0	
T 11	23 3	22 47	0 37	25 16	1 53	17 24	1 27	10 4	1 12	22 52	0 9	22 30	0 55	20 51	0 8	22 11	1 8	14 25	8 45	23 21	23 19	22 22	16 58	5 1	
F 12	23 7	23 33	0s29	25 16	1 56	17 43	1 26	10 20	1 11	22 53	0 9	22 30	0 55	20 51	0 8	22 11	1 8	14 25	8 45	23 21	23 19	22 23	16 57	5 1	
S 13	23 11	23 14	1 33	25 13	1 59	18 2	1 24	10 36	1 11	22 54	0 9	22 31	0 55	20 51	0 8	22 11	1 8	14 25	8 45	23 21	23 19	22 24	16 57	5 1	
S 14	23 14	21 52	2 34	25 8	2 1	18 20	1 22	10 52	1 11	22 54	0 9	22 31	0 55	20 50	0 8	22 11	1 8	14 25	8 45	23 21	23 19	22 25	16 56	5 1	
M15	23 17	19 30	3 28	25 1	2 2	18 37	1 21	11 8	1 10	22 55	0 9	22 31	0 54	20 50	0 8	22 11	1 8	14 26	8 45	23 21	23 19	22 26	16 55	5 1	
T 16	23 19	16 14	4 14	24 52	2 2	18 54	1 19	11 23	1 10	22 55	0 9	22 31	0 54	20 49	0 8	22 11	1 8	14 26	8 45	23 20	23 19	22 27	16 55	5 1	
W17	23 21	12 12	4 50	24 40	2 2	19 11	1 17	11 39	1 9	22 56	0 9	22 31	0 54	20 49	0 8	22 11	1 8	14 26	8 45	23 20	23 19	22 28	16 54	5 1	
T 18	23 23	7 31	5 11	24 27	2 0	19 27	1 15	11 54	1 9	22 57	0 8	22 31	0 54	20 49	0 8	22 11	1 8	14 26	8 45	23 20	23 20	22 29	16 53	5 1	
F 19	23 24	2 23	5 17	24 13	1 58	19 43	1 13	12 9	1 9	22 57	0 8	22 31	0 54	20 48	0 8	22 11	1 8	14 26	8 45	23 20	23 20	22 31	16 53	5 1	
S 20	23 25	3n 1	5 6	23 56	1 56	19 58	1 11	12 24	1 8	22 58	0 8	22 31	0 54	20 48	0 8	22 11	1 8	14 26	8 45	23 20	23 20	22 32	16 52	5 1	
S 21	23 25	8 27	4 37	23 39	1 52	20 13	1 9	12 39	1 8	22 59	0 8	22 31	0 54	20 47	0 8	22 11	1 8	14 26	8 45	23 20	23 20	22 33	16 52	5 1	
M22	23 25	13 35	3 50	23 20	1 48	20 27	1 7	12 54	1 7	22 59	0 8	22 31	0 54	20 47	0 8	22 11	1 8	14 26	8 45	23 20	23 20	22 34	16 51	5 1	
T 23	23 25	18 3	2 46	22 59	1 44	20 41	1 4	13 8	1 7	23 0	0 8	22 31	0 54	20 47	0 8	22 12	1 8	14 26	8 45	23 20	23 20	22 35	16 50	5 1	
W24	23 24	21 25	1 30	22 38	1 38	20 54	1 2	13 23	1 6	23 1	0 8	22 31	0 54	20 46	0 8	22 12	1 8	14 27	8 45	23 20	23 20	22 36	16 50	5 1	
T 25	23 22	23 16	0 6	22 16	1 32	21 6	1 0	13 37	1 6	23 1	0 8	22 31	0 54	20 46	0 8	22 12	1 8	14 27	8 45	23 20	23 20	22 37	16 49	5 1	
F 26	23 21	23 25	1n17	21 52	1 26	21 18	0 58	13 51	1 6	23 2	0 7	22 31	0 54	20 45	0 8	22 12	1 8	14 27	8 45	23 20	23 20	22 38	16 49	5 1	
S 27	23 18	21 52	2 34	21 28	1 19	21 30	0 56	14 5	1 5	23 2	0 7	22 31	0 53	20 45	0 8	22 12	1 8	14 27	8 45	23 20	23 21	22 39	16 48	5 1	
S 28	23 16	18 53	3 39	21 4	1 11	21 40	0 53	14 19	1 5	23 3	0 7	22 31	0 53	20 45	0 8	22 12	1 8	14 27	8 45	23 21	23 21	22 40	16 48	5 1	
M29	23 13	14 50	4 29	20 39	1 2	21 50	0 51	14 33	1 4	23 4	0 7	22 31	0 53	20 44	0 8	22 12	1 8	14 27	8 45	23 21	23 21	22 41	16 47	5 1	
T 30	23n10	10n 7	5n 1	20n13	0n54	22n 0	0s49	14n47	1s 4	23s 4	0n 7	22n31	0s53	20s44	0n 8	22s12	1n 8	14n27	8s45	23n21	23n21	22s42	16s47	5n 1	

ASTRODIENST EPHEMERIS for the year 2150
geocentric

JULY 2150

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	18 36 7	9♉14'41	29♎26	4♊41	18♋26	13♌55	7°R45	2♉22	3°R37	4°R50	22♐4	4°R31	4♑19	26♒56	8°R41	W 1
T 2	18 40 3	10°11'54	12♌22	5°49	19°39	14°38	7♉38	2°30	3♒35	4♑48	22°5	4°D31	4°15	27°2	8♒38	T 2
F 3	18 44 0	11°9'07	24°57	6°53	20°52	15°22	7°30	2°37	3°33	4°47	22°7	4♑31	4°12	27°9	8°35	F 3
S 4	18 47 56	12°6'20	7♎15	7°55	22°5	16°5	7°22	2°45	3°31	4°45	22°8	4°32	4°9	27°16	8°32	S 4
S 5	18 51 53	13°3'32	19°20	8°53	23°18	16°48	7°15	2°53	3°29	4°44	22°9	4°33	4°6	27°22	8°29	S 5
M 6	18 55 50	14°0'44	1♒15	9°48	24°30	17°31	7°7	3°1	3°28	4°42	22°11	4°34	4°3	27°29	8°26	M 6
T 7	18 59 46	14°57'55	13°5	10°40	25°43	18°14	6°59	3°8	3°26	4°40	22°12	4°34	3°59	27°36	8°23	T 7
W 8	19 3 43	15°55'07	24°52	11°28	26°56	18°57	6°52	3°16	3°24	4°39	22°13	4°35	3°56	27°42	8°20	W 8
T 9	19 7 39	16°52'18	6♉41	12°13	28°9	19°40	6°44	3°24	3°23	4°37	22°15	4°R35	3°53	27°49	8°17	T 9
F 10	19 11 36	17°49'30	18°32	12°54	29°22	20°22	6°37	3°31	3°21	4°36	22°16	4°35	3°50	27°55	8°14	F 10
S 11	19 15 32	18°46'41	0♒29	13°31	0♉35	21°5	6°30	3°39	3°20	4°34	22°17	4°34	3°47	28°2	8°12	S 11
S 12	19 19 29	19°43'53	12°33	14°4	1°48	21°48	6°22	3°47	3°18	4°33	22°18	4°32	3°44	28°9	8°9	S 12
M13	19 23 25	20°41'05	24°47	14°33	3°2	22°30	6°15	3°54	3°17	4°31	22°20	4°30	3°40	28°15	8°7	M13
T 14	19 27 22	21°38'17	7♒12	14°58	4°15	23°13	6°8	4°2	3°15	4°30	22°21	4°27	3°37	28°22	8°4	T 14
W15	19 31 19	22°35'29	19°50	15°18	5°28	23°55	6°1	4°10	3°14	4°28	22°22	4°25	3°34	28°29	8°2	W15
T 16	19 35 15	23°32'42	2°Y45	15°34	6°41	24°37	5°54	4°17	3°13	4°27	22°23	4°23	3°31	28°35	8°0	T 16
F 17	19 39 12	24°29'56	15°57	15°45	7°54	25°19	5°47	4°25	3°12	4°25	22°25	4°22	3°28	28°42	7°58	F 17
S 18	19 43 8	25°27'10	29°28	15°52	9°7	26°2	5°40	4°32	3°10	4°24	22°26	4°D22	3°24	28°49	7°55	S 18
S 19	19 47 5	26°24'24	13♉20	15°R53	10°21	26°44	5°33	4°40	3°9	4°22	22°27	4°23	3°21	28°55	7°54	S 19
M20	19 51 1	27°21'40	27♌4	15°50	11°34	27°26	5°26	4°47	3°8	4°21	22°28	4°24	3°18	29°2	7°52	M20
T 21	19 54 58	28°18'56	12♐6	15°42	12°47	28°7	5°20	4°54	3°7	4°19	22°29	4°25	3°15	29°9	7°50	T 21
W22	19 58 54	29°16'13	26°54	15°30	14°1	28°49	5°13	5°2	3°6	4°18	22°31	4°R26	3°12	29°15	7°48	W22
T 23	20 2 51	0♊13'30	11♉51	15°12	15°14	29°31	5°7	5°9	3°5	4°16	22°32	4°26	3°9	29°22	7°46	T 23
F 24	20 6 48	1°10'49	26°51	14°50	16°27	0♐12	5°1	5°17	3°4	4°15	22°33	4°25	3°5	29°29	7°45	F 24
S 25	20 10 44	2°8'07	11♌45	14°24	17°41	0°54	4°55	5°24	3°3	4°13	22°34	4°22	3°2	29°35	7°43	S 25
S 26	20 14 41	3°5'26	26°24	13°53	18°54	1°35	4°49	5°31	3°2	4°12	22°35	4°19	2°59	29°42	7°42	S 26
M27	20 18 37	4°2'46	10♎42	13°19	20°8	2°17	4°43	5°38	3°1	4°11	22°36	4°14	2°56	29°48	7°41	M27
T 28	20 22 34	5°0'05	24°35	12°42	21°21	2°58	4°37	5°46	3°1	4°9	22°37	4°10	2°53	29°55	7°40	T 28
W29	20 26 30	5°57'26	8♌1	12°2	22°35	3°39	4°31	5°53	3°0	4°8	22°38	4°6	2°50	0♉2	7°39	W29
T 30	20 30 27	6°54'46	21°2	11°19	23°48	4°20	4°26	6°0	2°59	4°7	22°39	4°4	2°46	0°8	7°38	T 30
F 31	20 34 23	7♊52'07	3♎38	10♊36	25♉2	5♐1	4♉21	6♉7	2♒59	4♉6	22♐41	4°D3	2♉43	0♉15	7♒37	F 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	23n 6	5n 4	5n16	19n47	0n44	22n 9	0s46	15n 0	1s 3	23s 5	0n 7	22n31	0s53	20s44	0n 8	22s12	1n 8	14n27	8s45	23n21	23n21	22s43	16s47	5n 1	
T 2	23 2	0s 3	5 15	19 21	0 34	22 17	0 44	15 13	1 2	23 5	0 7	22 31	0 53	20 43	0 8	22 12	1 8	14 27	8 45	23 21	23 21	22 44	16 46	5 1	
F 3	22 57	5 2	4 58	18 55	0 24	22 25	0 41	15 26	1 2	23 6	0 6	22 31	0 53	20 43	0 8	22 12	1 8	14 27	8 45	23 21	23 21	22 45	16 46	5 1	
S 4	22 52	9 42	4 28	18 29	0 12	22 32	0 39	15 39	1 1	23 7	0 6	22 31	0 53	20 43	0 8	22 12	1 8	14 27	8 45	23 21	23 21	22 46	16 45	5 1	
S 5	22 47	13 55	3 46	18 2	0 1	22 39	0 36	15 52	1 1	23 7	0 6	22 30	0 53	20 42	0 8	22 12	1 8	14 27	8 45	23 20	23 21	22 47	16 45	5 1	
M 6	22 41	17 32	2 55	17 36	0s11	22 44	0 34	16 5	1 0	23 8	0 6	22 30	0 53	20 42	0 8	22 12	1 8	14 27	8 45	23 20	23 21	22 48	16 45	5 1	
T 7	22 35	20 25	1 57	17 10	0 23	22 50	0 31	16 17	1 0	23 8	0 6	22 30	0 53	20 42	0 8	22 13	1 8	14 27	8 45	23 20	23 22	22 49	16 44	5 0	
W 8	22 28	22 26	0 54	16 45	0 36	22 54	0 29	16 30	0 59	23 9	0 6	22 30	0 53	20 42	0 8	22 13	1 8	14 27	8 45	23 20	23 22	22 50	16 44	5 0	
T 9	22 21	23 27	0s12	16 20	0 49	22 58	0 26	16 42	0 58	23 9	0 6	22 30	0 53	20 41	0 8	22 13	1 8	14 27	8 45	23 20	23 22	22 51	16 44	5 0	
F 10	22 14	23 24	1 17	15 56	1 3	23 1	0 24	16 54	0 58	23 10	0 5	22 30	0 53	20 41	0 8	22 13	1 8	14 27	8 45	23 20	23 22	22 52	16 43	5 0	
S 11	22 6	22 17	2 19	15 32	1 16	23 4	0 21	17 6	0 57	23 10	0 5	22 30	0 53	20 41	0 8	22 13	1 8	14 28	8 45	23 20	23 22	22 53	16 43	5 0	
S 12	21 58	20 9	3 15	15 9	1 31	23 6	0 19	17 17	0 57	23 11	0 5	22 29	0 52	20 40	0 8	22 13	1 8	14 28	8 45	23 21	23 22	22 54	16 43	5 0	
M13	21 50	17 4	4 3	14 47	1 45	23 7	0 16	17 29	0 56	23 11	0 5	22 29	0 52	20 40	0 8	22 13	1 8	14 28	8 45	23 21	23 22	22 55	16 43	5 0	
T 14	21 41	13 12	4 41	14 26	1 59	23 7	0 14	17 40	0 55	23 12	0 5	22 29	0 52	20 40	0 8	22 13	1 8	14 28	8 45	23 21	23 22	22 56	16 42	4 59	
W15	21 32	8 42	5 6	14 6	2 14	23 7	0 11	17 51	0 55	23 12	0 5	22 29	0 52	20 40	0 8	22 13	1 8	14 28	8 45	23 21	23 22	22 57	16 42	4 59	
T 16	21 22	3 44	5 15	13 48	2 28	23 6	0 9	18 2	0 54	23 13	0 5	22 29	0 52	20 39	0 8	22 13	1 8	14 28	8 45	23 21	23 22	22 58	16 42	4 59	
F 17	21 12	1n30	5 9	13 31	2 43	23 5	0 6	18 13	0 53	23 13	0 4	22 29	0 52	20 39	0 8	22 13	1 8	14 28	8 45	23 21	23 22	22 59	16 42	4 59	
S 18	21 2	6 49	4 46	13 15	2 57	23 3	0 4	18 23	0 53	23 14	0 4	22 28	0 52	20 39	0 8	22 13	1 8	14 28	8 45	23 21	23 23	23 0	16 42	4 59	
S 19	20 51	11 55	4 6	13 1	3 11	23 0	0 1	18 34	0 52	23 14	0 4	22 28	0 52	20 39	0 8	22 13	1 7	14 28	8 45	23 21	23 23	23 1	16 42	4 58	
M20	20 40	16 31	3 9	12 49	3 25	22 56	0n 1	18 44	0 51	23 14	0 4	22 28	0 52	20 39	0 8	22 13	1 7	14 28	8 46	23 21	23 23	23 2	16 42	4 58	
T 21	20 29	20 14	2 0	12 38	3 38	22 52	0 4	18 54	0 51	23 15	0 4	22 28	0 52	20 38	0 8	22 14	1 7	14 28	8 46	23 21	23 23	23 3	16 42	4 58	
W22	20 17	22 42	0 41	12 30	3 51	22 47	0 6	19 4	0 50	23 15	0 4	22 28	0 52	20 38	0 8	22 14	1 7	14 28	8 46	23 21	23 23	23 4	16 41	4 58	
T 23	20 5	23 34	0n41	12 23	4 3	22 42	0 9	19 14	0 49	23 16	0 4	22 27	0 52	20 38	0 8	22 14	1 7	14 28	8 46	23 21	23 23	23 5	16 41	4 58	
F 24	19 53	22 44	2 0	12 19	4 15	22 36	0 11	19 23	0 48	23 16	0 3	22 27	0 52	20 38	0 8	22 14	1 7	14 28	8 46	23 21	23 23	23 6	16 41	4 57	
S 25	19 40	20 18	3 11	12 16	4 25	22 29	0 14	19 33	0 48	23 16	0 3	22 27	0 52	20 38	0 7	22 14	1 7	14 28	8 46	23 21	23 23	23 6	16 41	4 57	
S 26	19 27	16 35	4 8	12 16	4 34	22 21	0 16	19 42	0 47	23 17	0 3	22 27	0 52	20 38	0 7	22 14	1 7	14 28	8 46	23 21	23 23	23 7	16 41	4 57	
M27	19 14	11 58	4 47	12 18	4 42	22 13	0 19	19 51	0 46	23 17	0 3	22 26	0 52	20 37	0 7	22 14	1 7	14 28	8 46	23 21	23 23	23 8	16 41	4 57	
T 28	19 0	6 52	5 9	12 22	4 49	22 4	0 21	19 59	0 45	23 17	0 3	22 26	0 52	20 37	0 7	22 14	1 7	14 28	8 46	23 21	23 23	23 9	16 42	4 56	
W29	18 46	1 36	5 12	12 28	4 54	21 55	0 23	20 8	0 45	23 18	0 3	22 26	0 52	20 37	0 7	22 14	1 7	14 27	8 46	23 21	23 23	23 10	16 42	4 56	
T 30	18 32	3s34	5 0	12 36	4 57	21 45	0 26	20 16	0 44	23 18	0 3	22 25	0 52	20 37	0 7	22 14	1 7	14 27	8 46	23 21	23 23	23 11	16 42	4 56	
F 31	18n17	8s27	4n32	12n46	4s59	21n34	0n28	20n25	0s43	23s18	0n 2	22n25	0s52	20s37	0n 7	22s14	1n 7	14n27	8s46	23n21	23n23	23s12	16s42	4n56	

ASTRODIENST EPHEMERIS for the year 2150

geocentric

AUGUST 2150

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 20	8♂49'29	15♂56	9♂R52	26♂15	5♂II41	4♂R15	6♂14	2♂R58	4♂R 4	22♂42	4♂ 3	2♂40	0♂22	7♂R36	S 1
S 2	20 42 17	9°46'51	27°58	9♂ 8	27°29	6°22	4♂10	6°21	2♂58	4♂ 3	22°43	4° 4	2°37	0°28	7♂35	S 2
M 3	20 46 13	10°44'14	9♂52	8°25	28°43	7° 3	4° 6	6°28	2°57	4° 2	22°44	4° 6	2°34	0°35	7°35	M 3
T 4	20 50 10	11°41'37	21°40	7°44	29°56	7°43	4° 1	6°35	2°57	4° 1	22°45	4° 7	2°30	0°42	7°34	T 4
W 5	20 54 6	12°39'01	3♂27	7° 5	1♂10	8°24	3°56	6°42	2°56	3°59	22°46	4♂R 8	2°27	0°48	7°34	W 5
T 6	20 58 3	13°36'26	15°18	6°30	2°24	9° 4	3°52	6°48	2°56	3°58	22°46	4° 7	2°24	0°55	7°33	T 6
F 7	21 1 59	14°33'51	27°16	5°58	3°37	9°44	3°48	6°55	2°56	3°57	22°47	4° 5	2°21	1° 2	7°33	F 7
S 8	21 5 56	15°31'18	9♂23	5°31	4°51	10°24	3°44	7° 2	2°56	3°56	22°48	4° 1	2°18	1° 8	7°33	S 8
S 9	21 9 53	16°28'45	21°40	5°10	6° 5	11° 4	3°40	7° 9	2°56	3°55	22°49	3°55	2°15	1°15	7°D33	S 9
M10	21 13 49	17°26'13	4♂ 9	4°54	7°19	11°44	3°36	7°15	2°55	3°54	22°50	3°47	2°11	1°21	7°33	M10
T 11	21 17 46	18°23'42	16°51	4°44	8°32	12°24	3°32	7°22	2°D55	3°53	22°51	3°40	2° 8	1°28	7°33	T 11
W12	21 21 42	19°21'13	29°46	4°D41	9°46	13° 3	3°29	7°28	2°55	3°52	22°52	3°32	2° 5	1°35	7°34	W12
T 13	21 25 39	20°18'44	12♂54	4°45	11° 0	13°43	3°26	7°35	2°55	3°51	22°53	3°26	2° 2	1°41	7°34	T 13
F 14	21 29 35	21°16'17	26°15	4°55	12°14	14°22	3°23	7°41	2°56	3°50	22°54	3°21	1°59	1°48	7°34	F 14
S 15	21 33 32	22°13'52	9♂49	5°12	13°28	15° 1	3°20	7°48	2°56	3°49	22°54	3°19	1°56	1°55	7°35	S 15
S 16	21 37 28	23°11'28	23°38	5°37	14°42	15°41	3°17	7°54	2°56	3°48	22°55	3°D18	1°52	2° 1	7°36	S 16
M17	21 41 25	24° 9'05	7♂40	6° 9	15°56	16°20	3°15	8° 0	2°56	3°47	22°56	3°18	1°49	2° 8	7°36	M17
T 18	21 45 21	25° 6'44	21°56	6°47	17°10	16°58	3°12	8° 6	2°57	3°46	22°57	3°19	1°46	2°15	7°37	T 18
W19	21 49 18	26° 4'25	6♂23	7°33	18°24	17°37	3°10	8°12	2°57	3°45	22°57	3°R20	1°43	2°21	7°38	W19
T 20	21 53 15	27° 2'07	20°59	8°25	19°38	18°16	3° 8	8°18	2°57	3°44	22°58	3°19	1°40	2°28	7°39	T 20
F 21	21 57 11	27°59'51	5♂29	9°24	20°52	18°55	3° 6	8°24	2°58	3°44	22°59	3°15	1°36	2°35	7°40	F 21
S 22	22 1 8	28°57'36	20°15	10°30	22° 6	19°33	3° 5	8°30	2°58	3°43	22°59	3° 9	1°33	2°41	7°42	S 22
S 23	22 5 4	29°55'22	4♂43	11°41	23°21	20°11	3° 3	8°36	2°59	3°42	23° 0	3° 1	1°30	2°48	7°43	S 23
M24	22 9 1	0♂53'10	18°54	12°59	24°35	20°49	3° 2	8°42	2°59	3°42	23° 1	2°52	1°27	2°55	7°45	M24
T 25	22 12 57	1°50'59	2♂44	14°22	25°49	21°27	3° 1	8°48	3° 0	3°41	23° 1	2°43	1°24	3° 1	7°46	T 25
W26	22 16 54	2°48'49	16°10	15°50	27° 3	22° 5	3° 0	8°54	3° 1	3°40	23° 2	2°34	1°21	3° 8	7°48	W26
T 27	22 20 50	3°46'40	29°11	17°23	28°17	22°43	2°59	8°59	3° 2	3°40	23° 3	2°27	1°17	3°14	7°49	T 27
F 28	22 24 47	4°44'33	11♂49	19° 0	29°32	23°21	2°59	9° 5	3° 2	3°39	23° 3	2°22	1°14	3°21	7°51	F 28
S 29	22 28 44	5°42'27	24° 7	20°41	0♂46	23°58	2°59	9°10	3° 3	3°38	23° 4	2°20	1°11	3°28	7°53	S 29
S 30	22 32 40	6°40'22	6♂10	22°26	2° 0	24°35	2°D59	9°16	3° 4	3°38	23° 4	2°D19	1° 8	3°34	7°55	S 30
M31	22 36 37	7♂38'19	18♂ 3	24♂13	3♂14	25♂12	2♂59	9♂21	3♂ 5	3♂37	23♂ 5	2♂20	1♂ 5	3♂41	7♂57	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	18n 2	12s52	3n53	12n58	4s59	21n23	0n30	20n33	0s42	23s19	0n 2	22n25	0s52	20s37	0n 7	22s14
S 2	17 47	16 41	3 5	13 11	4 57	21 11	0 33	20 40	0 42	23 19	0 2	22 25	0 51	20 37	0 7	22 14
M 3	17 32	19 47	2 9	13 25	4 53	20 58	0 35	20 48	0 41	23 19	0 2	22 24	0 51	20 37	0 7	22 14
T 4	17 16	22 2	1 8	13 41	4 48	20 45	0 37	20 55	0 40	23 20	0 2	22 24	0 51	20 37	0 7	22 15
W 5	17 0	23 19	0 4	13 58	4 41	20 31	0 39	21 3	0 39	23 20	0 2	22 24	0 51	20 37	0 7	22 15
T 6	16 44	23 33	1s 0	14 15	4 32	20 17	0 41	21 10	0 38	23 20	0 2	22 23	0 51	20 37	0 7	22 15
F 7	16 27	22 41	2 2	14 32	4 22	20 2	0 43	21 17	0 37	23 20	0 1	22 23	0 51	20 37	0 7	22 15
S 8	16 10	20 47	3 0	14 50	4 10	19 46	0 46	21 23	0 36	23 21	0 1	22 23	0 51	20 36	0 7	22 15
S 9	15 53	17 53	3 49	15 7	3 57	19 30	0 48	21 30	0 36	23 21	0 1	22 22	0 51	20 36	0 7	22 15
M10	15 36	14 8	4 28	15 25	3 43	19 14	0 49	21 36	0 35	23 21	0 1	22 22	0 51	20 36	0 7	22 15
T 11	15 18	9 43	4 55	15 41	3 28	18 56	0 51	21 42	0 34	23 21	0 1	22 22	0 51	20 36	0 7	22 15
W12	15 0	4 48	5 8	15 57	3 13	18 39	0 53	21 48	0 33	23 22	0 1	22 21	0 51	20 37	0 7	22 15
T 13	14 42	0n25	5 4	16 12	2 57	18 20	0 55	21 54	0 32	23 22	0 1	22 21	0 51	20 37	0 7	22 15
F 14	14 24	5 42	4 4	16 26	2 40	18 2	0 57	21 59	0 31	23 22	0 1	22 21	0 51	20 37	0 7	22 15
S 15	14 5	10 49	4 8	16 38	2 23	17 42	0 59	22 5	0 30	23 22	0 0	22 20	0 51	20 37	0 7	22 15
S 16	13 47	15 29	3 17	16 49	2 6	17 22	1 0	22 10	0 29	23 22	0 0	22 20	0 51	20 37	0 7	22 15
M17	13 28	19 22	2 14	16 58	1 49	17 2	1 2	22 15	0 28	23 23	0 0	22 20	0 51	20 37	0 7	22 15
T 18	13 8	22 9	1 1	17 5	1 32	16 41	1 4	22 20	0 27	23 23	0 0	22 19	0 51	20 37	0 7	22 15
W19	12 49	23 32	0n16	17 10	1 15	16 20	1 5	22 24	0 26	23 23	0s 0	22 19	0 51	20 37	0 7	22 15
T 20	12 29	23 19	1 33	17 12	0 59	15 58	1 7	22 29	0 25	23 23	0 0	22 19	0 51	20 37	0 7	22 16
F 21	12 10	21 30	2 44	17 12	0 43	15 36	1 8	22 33	0 24	23 23	0 0	22 18	0 51	20 37	0 7	22 16
S 22	11 50	18 16	3 44	17 10	0 27	15 14	1 10	22 37	0 23	23 24	0 0	22 18	0 51	20 37	0 7	22 16
S 23	11 29	13 57	4 29	17 4	0 12	14 51	1 11	22 41	0 22	23 24	0 1	22 18	0 51	20 37	0 7	22 16
M24	11 9	8 56	4 56	16 56	0n 2	14 27	1 12	22 45	0 21	23 24	0 1	22 17	0 51	20 37	0 7	22 16
T 25	10 48	3 35	5 5	16 45	0 15	14 3	1 13	22 48	0 20	23 24	0 1	22 17	0 51	20 38	0 7	22 16
W26	10 28	1s47	4 57	16 31	0 28	13 39	1 15	22 52	0 19	23 24	0 1	22 17	0 51	20 38	0 7	22 16
T 27	10 7	6 55	4 33	16 15	0 40	13 14	1 16	22 55	0 18	23 24	0 1	22 16	0 51	20 38	0 7	22 16
F 28	9 46	11 37	3 56	15 55	0 51	12 50	1 17	22 58	0 17	23 24	0 1	22 16	0 51	20 38	0 7	22 16
S 29	9 25	15 43	3 9	15 32	1 0	12 24	1 18	23 1	0 16	23 25	0 1	22 15	0 51	20 38	0 7	22 16
S 30	9 3	19 6	2 15	15 7	1 9	11 59	1 19	23 3	0 15	23 25	0 1	22 15	0 51	20 39	0 7	22 16
M31	8n42	21s38	1n16	14n39	1n17	11n33	1n19	23n 6	0s14	23s25	0s 2	22n15	0s51	20s39	0n 7	22s16

Julian Day Number = 2506543.5, Delta T = 122.06 sec
 Ecliptic obliquity = 23°25'10, Nutation = -0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°50'40, Lahiri = 25°57'40

ASTRODIENST EPHEMERIS for the year 2150
geocentric

SEPTEMBER 2150

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 40 33	8♉36°17	29♊51	26♋3	4♌29	25♍50	2♎59	9♏26	3♐6	3♑37	23♒5	2♓20	1♑2	3♒48	8♊0	T 1
W 2	22 44 30	9°34'16	11♈40	27°56	5°43	26°26	3°0	9°31	3°7	3♒37	23°6	2♑20	0°58	3°54	8°2	W 2
T 3	22 48 26	10°32'16	23°35	29°49	6°57	27°3	3°0	9°36	3°9	3°36	23°6	2°17	0°55	4°1	8°4	T 3
F 4	22 52 23	11°30'18	5♈39	1♉44	8°12	27°40	3°1	9°41	3°10	3°36	23°6	2°13	0°52	4°8	8°7	F 4
S 5	22 56 19	12°28'22	17°55	3°40	9°26	28°16	3°2	9°46	3°11	3°35	23°7	2°6	0°49	4°14	8°9	S 5
S 6	23 0 16	13°26'27	0♈27	5°37	10°41	28°52	3°3	9°51	3°12	3°35	23°7	1°56	0°46	4°21	8°12	S 6
M 7	23 4 13	14°24'33	13°14	7°33	11°55	29°28	3°5	9°56	3°14	3°35	23°8	1°45	0°42	4°28	8°15	M 7
T 8	23 8 9	15°22'41	26°17	9°30	13°10	0♉4	3°6	10°1	3°15	3°35	23°8	1°33	0°39	4°34	8°18	T 8
W 9	23 12 6	16°20'51	9♊34	11°27	14°24	0°40	3°8	10°5	3°16	3°34	23°8	1°21	0°36	4°41	8°20	W 9
T 10	23 16 2	17°19'03	23°4	13°23	15°39	1°16	3°10	10°10	3°18	3°34	23°9	1°11	0°33	4°47	8°23	T 10
F 11	23 19 59	18°17'16	6♈43	15°18	16°53	1°51	3°12	10°14	3°19	3°34	23°9	1°3	0°30	4°54	8°27	F 11
S 12	23 23 55	19°15'32	20°31	17°13	18°8	2°27	3°15	10°19	3°21	3°34	23°9	0°58	0°27	5°1	8°30	S 12
S 13	23 27 52	20°13'50	4♉26	19°8	19°22	3°2	3°17	10°23	3°23	3°34	23°9	0°55	0°23	5°7	8°33	S 13
M14	23 31 48	21°12'10	18°27	21°1	20°37	3°37	3°20	10°27	3°24	3°34	23°9	0°D55	0°20	5°14	8°36	M14
T 15	23 35 45	22°10'32	2♉33	22°53	21°51	4°11	3°23	10°31	3°26	3°D34	23°10	0°R55	0°17	5°21	8°40	T 15
W16	23 39 42	23°8'56	16°44	24°45	23°6	4°46	3°26	10°35	3°28	3°34	23°10	0°54	0°14	5°27	8°43	W16
T 17	23 43 38	24°7'23	0♉58	26°35	24°21	5°20	3°29	10°39	3°30	3°34	23°10	0°52	0°11	5°34	8°47	T 17
F 18	23 47 35	25°5'51	15°13	28°25	25°35	5°55	3°33	10°43	3°31	3°34	23°10	0°47	0°7	5°41	8°51	F 18
S 19	23 51 31	26°4'22	29°25	0♉13	26°50	6°29	3°36	10°47	3°33	3°34	23°10	0°39	0°4	5°47	8°55	S 19
S 20	23 55 28	27°2'54	13♉30	2°0	28°4	7°3	3°40	10°51	3°35	3°34	23°10	0°28	0°1	5°54	8°58	S 20
M21	23 59 24	28°1'29	27°22	3°47	29°19	7°36	3°44	10°54	3°37	3°34	23°10	0°16	29♉58	6°1	9°2	M21
T 22	0 3 21	29°0'05	10♉58	5°32	0♉34	8°10	3°48	10°58	3°39	3°35	23°10	0°4	29°55	6°7	9°6	T 22
W23	0 7 17	29°58'43	24°14	7°16	1°49	8°43	3°52	11°1	3°41	3°35	23°R10	29♉52	29°52	6°14	9°11	W23
T 24	0 11 14	0♉57'23	7♉10	8°59	3°3	9°16	3°57	11°4	3°43	3°35	23°10	29°42	29°48	6°20	9°15	T 24
F 25	0 15 11	1°56'05	19°45	10°41	4°18	9°49	4°1	11°8	3°46	3°35	23°10	29°35	29°45	6°27	9°19	F 25
S 26	0 19 7	2°54'48	2♊1	12°23	5°33	10°21	4°6	11°11	3°48	3°36	23°10	29°30	29°42	6°34	9°23	S 26
S 27	0 23 4	3°53'34	14°4	14°3	6°48	10°54	4°11	11°14	3°50	3°36	23°10	29°28	29°39	6°40	9°28	S 27
M28	0 27 0	4°52'21	25°57	15°42	8°2	11°26	4°16	11°16	3°52	3°36	23°10	29°27	29°36	6°47	9°32	M28
T 29	0 30 57	5°51'10	7♈45	17°21	9°17	11°58	4°22	11°19	3°55	3°37	23°10	29°27	29°33	6°54	9°37	T 29
W30	0 34 53	6♉50'00	19♈34	18♉58	10♉32	12♉29	4♉27	11♉22	3♊57	3♈37	23♉10	29♉26	29♉29	7♈0	9♊41	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n20	23s12	0n13	14n 9	1n24	11n 6	1n20	23n 8	0s13	23s25	0s 2	22n14	0s51	20s39	0n 7	22s16	1n 6	14n25	8s50	23n24	23n25	23s37	16s54	4n47					
W 2	7 58	23 44	0s50	13 36	1 30	10 40	1 21	23 10	0 12	23 25	0 2	22 14	0 51	20 39	0 7	22 16	1 6	14 25	8 50	23 24	23 25	23 38	16 55	4 46					
T 3	7 37	23 11	1 51	13 1	1 35	10 13	1 22	23 12	0 11	23 25	0 2	22 14	0 51	20 39	0 7	22 16	1 6	14 25	8 51	23 24	23 25	23 38	16 56	4 46					
F 4	7 15	21 33	2 47	12 24	1 39	9 46	1 22	23 14	0 10	23 25	0 2	22 13	0 51	20 40	0 7	22 16	1 6	14 24	8 51	23 24	23 25	23 39	16 56	4 46					
S 5	6 52	18 54	3 37	11 45	1 43	9 18	1 23	23 16	0 9	23 25	0 2	22 13	0 51	20 40	0 7	22 16	1 6	14 24	8 51	23 24	23 25	23 40	16 57	4 45					
S 6	6 30	15 19	4 18	11 4	1 45	8 51	1 23	23 17	0 8	23 25	0 2	22 13	0 51	20 40	0 7	22 17	1 6	14 24	8 51	23 24	23 25	23 40	16 58	4 45					
M 7	6 8	10 59	4 46	10 22	1 46	8 23	1 24	23 19	0 6	23 25	0 2	22 12	0 51	20 40	0 7	22 17	1 6	14 24	8 51	23 24	23 25	23 41	16 59	4 45					
T 8	5 45	6 4	5 0	9 39	1 47	7 54	1 24	23 20	0 5	23 26	0 3	22 12	0 51	20 41	0 7	22 17	1 6	14 24	8 51	23 25	23 25	23 42	16 59	4 44					
W 9	5 23	0 47	4 58	8 55	1 47	7 26	1 24	23 21	0 4	23 26	0 3	22 12	0 51	20 41	0 7	22 17	1 6	14 24	8 51	23 25	23 25	23 42	17 0	4 44					
T 10	5 0	4n37	4 40	8 10	1 46	6 57	1 25	23 22	0 3	23 26	0 3	22 11	0 51	20 41	0 7	22 17	1 6	14 24	8 52	23 25	23 25	23 43	17 1	4 44					
F 11	4 38	9 53	4 6	7 24	1 45	6 29	1 25	23 23	0 2	23 26	0 3	22 11	0 51	20 42	0 7	22 17	1 6	14 23	8 52	23 25	23 25	23 44	17 1	4 44					
S 12	4 15	14 42	3 16	6 38	1 43	6 0	1 25	23 23	0 0	23 26	0 3	22 11	0 51	20 42	0 7	22 17	1 5	14 23	8 52	23 25	23 25	23 44	17 2	4 43					
S 13	3 52	18 48	2 15	5 51	1 41	5 30	1 25	23 24	0n 1	23 26	0 3	22 10	0 51	20 42	0 7	22 17	1 5	14 23	8 52	23 25	23 25	23 45	17 3	4 43					
M14	3 29	21 50	1 6	5 3	1 38	5 1	1 25	23 24	0 2	23 26	0 3	22 10	0 51	20 43	0 7	22 17	1 5	14 23	8 52	23 25	23 25	23 45	17 4	4 43					
T 15	3 6	23 32	0n 9	4 16	1 34	4 32	1 25	23 24	0 3	23 26	0 3	22 10	0 51	20 43	0 7	22 17	1 5	14 23	8 52	23 25	23 25	23 46	17 5	4 43					
W16	2 43	23 44	1 23	3 28	1 31	4 2	1 25	23 24	0 4	23 26	0 3	22 9	0 51	20 43	0 7	22 17	1 5	14 23	8 52	23 25	23 25	23 47	17 5	4 42					
T 17	2 20	22 24	2 32	2 41	1 26	3 32	1 24	23 24	0 6	23 26	0 4	22 9	0 51	20 44	0 7	22 17	1 5	14 23	8 53	23 25	23 25	23 47	17 6	4 42					
F 18	1 57	19 37	3 31	1 53	1 22	3 2	1 24	23 24	0 7	23 26	0 4	22 9	0 51	20 44	0 7	22 17	1 5	14 23	8 53	23 25	23 25	23 48	17 7	4 42					
S 19	1 34	15 41	4 18	1 5	1 17	2 32	1 24	23 24	0 8	23 26	0 4	22 8	0 51	20 44	0 7	22 17	1 5	14 22	8 53	23 25	23 25	23 48	17 8	4 42					
S 20	1 10	10 54	4 48	0 18	1 11	2 2	1 23	23 24	0 10	23 26	0 4	22 8	0 51	20 45	0 7	22 17	1 5	14 22	8 53	23 25	23 25	23 49	17 9	4 41					
M21	0 47	5 38	5 0	0s30	1 6	1 32	1 23	23 23	0 11	23 26	0 4	22 8	0 51	20 45	0 7	22 17	1 5	14 22	8 53	23 25	23 25	23 50	17 9	4 41					
T 22	0 24	0 11	4 55	1 17	1 0	1 2	1 22	23 22	0 12	23 26	0 4	22 8	0 51	20 46	0 7	22 17	1 5	14 22	8 53	23 25	23 25	23 50	17 10	4 41					
W23	0 1	5s8	4 34	2 3	0 54	0 32	1 22	23 22	0 14	23 26	0 4	22 7	0 51	20 46	0 7	22 17	1 5	14 22	8 54	23 25	23 25	23 51	17 11	4 40					
T 24	0s23	10 7	3 59	2 50	0 48	0 2	1 21	23 21	0 15	23 26	0 4	22 7	0 51	20 46	0 7	22 17	1 5	14 22	8 54	23 25	23 25	23 51	17 12	4 40					
F 25	0 46	14 33	3 14	3 36	0 41	0s29	1 20	23 20	0 16	23 26	0 4	22 7	0 51	20 47	0 7	22 17	1 5	14 21	8 54	23 25	23 25	23 52	17 13	4 40					
S 26	1 9	18 16	2 20	4 21	0 35	0 59	1 20	23 19	0 18	23 26	0 4	22 6	0 51	20 47	0 7	22 17	1 5	14 21	8 54	23 25	23 25	23 52	17 14	4 40					
S 27	1 33	21 8	1 21	5 6	0 28	1 29	1 19	23 17	0 19	23 26	0 5	22 6	0 51	20 48	0 6	22 17	1 5	14 21	8 54	23 25	23 25	23 53	17 15	4 40					
M28	1 56	23 3	0 19	5 51	0 21	2 0	1 18	23 16	0 20	23 26	0 5	22 6	0 51	20 48	0 6	22 17	1 5	14 21	8 54	23 25	23 25	23 53	17 16	4 39					
T 29	2 19	23 55	0s44	6 35	0 14	2 30	1 17	23 15	0 22	23 26	0 5	22 6	0 51	20 49	0 6	22 18	1 5	14 21	8 54	23 25	23 25	23 54	17 16	4 39					
W30	2s43	23s43	1s45	7s18	0n 7	3s 0	1n16	23n13	0n23	23s26	0s 5	22n 5	0s51	20s49	0n 6	22s18	1n 5	14n21	8s55	23n25	23n25	23s55	17s17	4n39					

ASTRODIENST EPHEMERIS for the year 2150
geocentric

OCTOBER 2150

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 50	7 ⁴⁸ 48'53	1 ³⁰ 30	20 ³⁴ 34	11 ⁴⁷ 47	13 ³² 32	4 ³³ 33	11 ²⁵ 25	4 ⁰ 0	3 ³⁸ 38	23 ^R 10	29 ^R 24	29 ^{II} 26	7 ³ 7	9 ⁴⁶ 46	T 1
F 2	0 42 46	8 ⁴⁷ 47	13 ³⁸ 38	22 ¹⁰ 10	13 ¹ 1	13 ³² 32	4 ³⁹ 39	11 ²⁷ 27	4 ² 2	3 ³⁸ 38	23 ^{II} 9	29 ^{II} 20	29 ²³ 23	7 ¹⁴ 14	9 ⁵¹ 51	F 2
S 3	0 46 43	9 ⁴⁶ 42	26 ¹ 1	23 ⁴⁵ 45	14 ¹⁶ 16	14 ³ 3	4 ⁴⁵ 45	11 ²⁹ 29	4 ⁴ 4	3 ³⁹ 39	23 ⁹ 9	29 ¹³ 13	29 ²⁰ 20	7 ²⁰ 20	9 ⁵⁶ 56	S 3
S 4	0 50 39	10 ⁴⁵ 40	8 ⁴³ 43	25 ¹⁹ 19	15 ³¹ 31	14 ³⁴ 34	4 ⁵¹ 51	11 ³² 32	4 ⁷ 7	3 ⁴⁰ 40	23 ⁹ 9	29 ⁴ 4	29 ¹⁷ 17	7 ²⁷ 27	10 ¹ 1	S 4
M 5	0 54 36	11 ⁴⁴ 39	21 ⁴⁶ 46	26 ⁵² 52	16 ⁴⁶ 46	15 ⁴ 4	4 ⁵⁷ 57	11 ³⁴ 34	4 ¹⁰ 10	3 ⁴⁰ 40	23 ⁹ 9	28 ⁵³ 53	29 ¹³ 13	7 ³⁴ 34	10 ⁶ 6	M 5
T 6	0 58 33	12 ⁴³ 41	5 ⁸ 8	28 ²⁴ 24	18 ¹ 1	15 ³⁵ 35	5 ⁴ 4	11 ³⁶ 36	4 ¹² 12	3 ⁴¹ 41	23 ⁸ 8	28 ⁴⁰ 40	29 ¹⁰ 10	7 ⁴⁰ 40	10 ¹¹ 11	T 6
W 7	1 2 29	13 ⁴² 44	18 ⁴⁸ 48	29 ⁵⁵ 55	19 ¹⁵ 15	16 ⁵ 5	5 ¹⁰ 10	11 ³⁸ 38	4 ¹⁵ 15	3 ⁴² 42	23 ⁸ 8	28 ²⁸ 28	29 ⁷ 7	7 ⁴⁷ 47	10 ¹⁶ 16	W 7
T 8	1 6 26	14 ⁴¹ 49	2 ⁴³ 43	1 ⁴³ 43	20 ³⁰ 30	16 ³⁴ 34	5 ¹⁷ 17	11 ⁴⁰ 40	4 ¹⁸ 18	3 ⁴² 42	23 ⁸ 8	28 ¹⁸ 18	29 ⁴ 4	7 ⁵³ 53	10 ²¹ 21	T 8
F 9	1 10 22	15 ⁴⁰ 57	16 ⁴⁸ 48	2 ⁵⁶ 56	21 ⁴⁵ 45	17 ⁴ 4	5 ²⁴ 24	11 ⁴¹ 41	4 ²⁰ 20	3 ⁴³ 43	23 ⁸ 8	28 ¹⁰ 10	29 ¹ 1	8 ⁰ 0	10 ²⁶ 26	F 9
S 10	1 14 19	16 ⁴⁰ 06	0 ^{II} 59	4 ²⁵ 25	23 ⁰ 0	17 ³³ 33	5 ³¹ 31	11 ⁴³ 43	4 ²³ 23	3 ⁴⁴ 44	23 ⁷ 7	28 ⁵ 5	28 ⁵⁸ 58	8 ⁷ 7	10 ³² 32	S 10
S 11	1 18 15	17 ³⁹ 19	15 ¹² 12	5 ⁵³ 53	24 ¹⁵ 15	18 ² 2	5 ³⁸ 38	11 ⁴⁵ 45	4 ²⁶ 26	3 ⁴⁵ 45	23 ⁷ 7	28 ² 2	28 ⁵⁴ 54	8 ¹³ 13	10 ³⁷ 37	S 11
M 12	1 22 12	18 ³⁸ 33	29 ²⁴ 24	7 ²⁰ 20	25 ³⁰ 30	18 ³⁰ 30	5 ⁴⁵ 45	11 ⁴⁶ 46	4 ²⁹ 29	3 ⁴⁶ 46	23 ⁶ 6	28 ^D 2	28 ⁵¹ 51	8 ²⁰ 20	10 ⁴³ 43	M 12
T 13	1 26 8	19 ³⁷ 50	13 ³³ 33	8 ⁴⁶ 46	26 ⁴⁵ 45	18 ⁵⁹ 59	5 ⁵³ 53	11 ⁴⁷ 47	4 ³¹ 31	3 ⁴⁷ 47	23 ⁶ 6	28 ^R 2	28 ⁴⁸ 48	8 ²⁷ 27	10 ⁴⁸ 48	T 13
W 14	1 30 5	20 ³⁷ 09	27 ³⁸ 38	10 ¹² 12	27 ⁵⁹ 59	19 ²⁷ 27	6 ⁰ 0	11 ⁴⁹ 49	4 ³⁴ 34	3 ⁴⁷ 47	23 ⁶ 6	28 ² 2	28 ⁴⁵ 45	8 ³³ 33	10 ⁵⁴ 54	W 14
T 15	1 34 2	21 ³⁶ 30	11 ³⁸ 38	11 ³⁶ 36	29 ¹⁴ 14	19 ⁵⁵ 55	6 ⁸ 8	11 ⁵⁰ 50	4 ³⁷ 37	3 ⁴⁸ 48	23 ⁵ 5	28 ⁰ 0	28 ⁴² 42	8 ⁴⁰ 40	10 ⁵⁹ 59	T 15
F 16	1 37 58	22 ³⁵ 54	25 ³³ 33	13 ⁰ 0	0 ^{II} 29	20 ²² 22	6 ¹⁶ 16	11 ⁵¹ 51	4 ⁴⁰ 40	3 ⁴⁹ 49	23 ⁵ 5	27 ⁵⁶ 56	28 ³⁹ 39	8 ⁴⁷ 47	11 ⁵ 5	F 16
S 17	1 41 55	23 ³⁵ 20	9 ²⁰ 20	14 ²³ 23	1 ⁴⁴ 44	20 ⁴⁹ 49	6 ²⁴ 24	11 ⁵² 52	4 ⁴³ 43	3 ⁵⁰ 50	23 ⁴ 4	27 ⁵⁰ 50	28 ³⁵ 35	8 ⁵³ 53	11 ¹¹ 11	S 17
S 18	1 45 51	24 ³⁴ 48	22 ⁵⁸ 58	15 ⁴⁵ 45	2 ⁵⁹ 59	21 ¹⁶ 16	6 ³² 32	11 ⁵² 52	4 ⁴⁶ 46	3 ⁵¹ 51	23 ⁴ 4	27 ⁴¹ 41	28 ³² 32	9 ⁰ 0	11 ¹⁷ 17	S 18
M 19	1 49 48	25 ³⁴ 19	6 ²⁶ 26	17 ⁵ 5	4 ¹⁴ 14	21 ⁴² 42	6 ⁴¹ 41	11 ⁵³ 53	4 ⁴⁹ 49	3 ⁵³ 53	23 ³ 3	27 ³⁰ 30	28 ²⁹ 29	9 ⁷ 7	11 ²² 22	M 19
T 20	1 53 44	26 ³³ 51	19 ³⁹ 39	18 ²⁵ 25	5 ²⁹ 29	22 ⁸ 8	6 ⁴⁹ 49	11 ⁵³ 53	4 ⁵² 52	3 ⁵⁴ 54	23 ² 2	27 ¹⁹ 19	28 ²⁶ 26	9 ¹³ 13	11 ²⁸ 28	T 20
W 21	1 57 41	27 ³³ 26	2 ^{II} 38	19 ⁴⁴ 44	6 ⁴⁴ 44	22 ³⁴ 34	6 ⁵⁸ 58	11 ⁵⁴ 54	4 ⁵⁵ 55	3 ⁵⁵ 55	23 ² 2	27 ⁹ 9	28 ²³ 23	9 ²⁰ 20	11 ³⁴ 34	W 21
T 22	2 1 37	28 ³³ 02	15 ²⁰ 20	21 ¹ 1	7 ⁵⁹ 59	23 ⁰ 0	7 ⁶ 6	11 ⁵⁴ 54	4 ⁵⁹ 59	3 ⁵⁶ 56	23 ¹ 1	27 ⁰ 0	28 ¹⁹ 19	9 ²⁷ 27	11 ⁴⁰ 40	T 22
F 23	2 5 34	29 ³² 41	27 ⁴⁶ 46	22 ¹⁷ 17	9 ¹⁴ 14	23 ²⁵ 25	7 ¹⁵ 15	11 ⁵⁴ 54	5 ² 2	3 ⁵⁷ 57	23 ¹ 1	26 ⁵⁴ 54	28 ¹⁶ 16	9 ³³ 33	11 ⁴⁶ 46	F 23
S 24	2 9 31	0 ^{II} 32'21	9 ⁴⁸ 48	23 ³¹ 31	10 ²⁹ 29	23 ⁴⁹ 49	7 ²⁴ 24	11 ^R 55	5 ⁵ 5	3 ⁵⁸ 58	23 ⁰ 0	26 ⁵⁰ 50	28 ¹³ 13	9 ⁴⁰ 40	11 ⁵² 52	S 24
S 25	2 13 27	1 ³² 03	21 ⁵⁸ 58	24 ⁴⁴ 44	11 ⁴⁴ 44	24 ¹⁴ 14	7 ³³ 33	11 ⁵⁴ 54	5 ⁸ 8	4 ⁰ 0	22 ⁵⁹ 59	26 ^D 48	28 ¹⁰ 10	9 ⁴⁶ 46	11 ⁵⁹ 59	S 25
M 26	2 17 24	2 ³¹ 48	3 ⁴⁹ 49	25 ⁵⁶ 56	12 ⁵⁹ 59	24 ³⁸ 38	7 ⁴² 42	11 ⁵⁴ 54	5 ¹¹ 11	4 ¹ 1	22 ⁵⁹ 59	26 ⁴⁸ 48	28 ⁷ 7	9 ⁵³ 53	12 ⁵ 5	M 26
T 27	2 21 20	3 ³¹ 33	15 ³⁷ 37	27 ⁵ 5	14 ¹³ 13	25 ¹ 1	7 ⁵² 52	11 ⁵⁴ 54	5 ¹⁵ 15	4 ² 2	22 ⁵⁸ 58	26 ⁴⁹ 49	28 ⁴ 4	10 ⁰ 0	12 ¹¹ 11	T 27
W 28	2 25 17	4 ³¹ 21	27 ²⁵ 25	28 ¹³ 13	15 ²⁸ 28	25 ²⁴ 24	8 ¹ 1	11 ⁵⁴ 54	5 ¹⁸ 18	4 ⁴ 4	22 ⁵⁷ 57	26 ⁵⁰ 50	28 ⁰ 0	10 ⁶ 6	12 ¹⁷ 17	W 28
T 29	2 29 13	5 ³¹ 10	9 ²⁰ 20	29 ¹⁸ 18	16 ⁴³ 43	25 ⁴⁷ 47	8 ¹¹ 11	11 ⁵³ 53	5 ²¹ 21	4 ⁵ 5	22 ⁵⁷ 57	26 ^R 50	27 ⁵⁷ 57	10 ¹³ 13	12 ²⁴ 24	T 29
F 30	2 33 10	6 ³¹ 01	21 ²⁷ 27	0 ⁴² 42	17 ⁵⁸ 58	26 ⁹ 9	8 ²⁰ 20	11 ⁵³ 53	5 ²⁵ 25	4 ⁶ 6	22 ⁵⁶ 56	26 ⁴⁹ 49	27 ⁵⁴ 54	10 ²⁰ 20	12 ³⁰ 30	F 30
S 31	2 37 6	7 ^{II} 30'53	3 ⁴⁸ 48	1 ⁴² 42	19 ^{II} 13	26 ³¹ 31	8 ³⁰ 30	11 ⁵² 52	5 ²⁸ 28	4 ⁸ 8	22 ^{II} 55	26 ^{II} 46	27 ^{II} 51	10 ²⁶ 26	12 ³⁷ 37	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	3s 6	22s26	2s41	8s 1	0n 0	3s30	1n15	23n12	0n25	23s25	0s 5	22n 5	0s51	20s49	0n 6	22s18	1n 5	14n21	8s55	23n25	23n25	23s55	17s18	4n39			
F 2	3 29	20 6	3 31	8 44	0s 7	4 1	1 14	23 10	0 26	23 25	0 5	22 5	0 51	20 50	0 6	22 18	1 5	14 20	8 55	23 25	23 25	23 56	17 19	4 38			
S 3	3 52	16 48	4 13	9 26	0 14	4 31	1 12	23 8	0 28	23 25	0 5	22 5	0 51	20 50	0 6	22 18	1 5	14 20	8 55	23 25	23 25	23 56	17 20	4 38			
S 4	4 15	12 40	4 43	10 7	0 21	5 1	1 11	23 6	0 29	23 25	0 5	22 5	0 51	20 51	0 6	22 18	1 5	14 20	8 55	23 25	23 25	23 57	17 21	4 38			
M 5	4 38	7 51	4 59	10 47	0 28	5 31	1 10	23 5	0 31	23 25	0 5	22 4	0 51	20 51	0 6	22 18	1 4	14 20	8 55	23 25	23 25	23 57	17 22	4 38			
T 6	5 1	2 33	4 59	11 27	0 36	6 0	1 8	23 3	0 32	23 25	0 5	22 4	0 51	20 52	0 6	22 18	1 4	14 20	8 55	23 25	23 25	23 58	17 23	4 38			
W 7	5 24	3n 0	4 43	12 6	0 43	6 30	1 7	23 1	0 34	23 25	0 6	22 4	0 51	20 52	0 6	22 18	1 4	14 20	8 56	23 25	23 25	23 58	17 24	4 37			
T 8	5 47	8 30	4 9	12 45	0 50	7 0	1 5	22 58	0 35	23 25	0 6	22 4	0 51	20 53	0 6	22 18	1 4	14 19	8 56	23 25	23 25	23 59	17 25	4 37			
F 9	6 10	13 38	3 20	13 22	0 57	7 29	1 4	22 56	0 37	23 24	0 6	22 4	0 51	20 53	0 6	22 18	1 4	14 19	8 56	23 24	23 25	23 59	17 25	4 37			
S 10	6 33	18 5	2 18	13 59	1 4	7 58	1 2	22 54	0 38	23 24	0 6	22 4	0 51	20 54	0 6	22 18	1 4	14 19	8 56	23 24	23 25	23 59	17 26	4 37			
S 11	6 55	21 29	1 8	14 35	1 11	8 27	1 1	22 52	0 40	23 24	0 6	22 4	0 51	20 54	0 6	22 18	1 4	14 19	8 56	23 24	23 25	24 0	17 27	4 37			
M 12	7 18	23 32	0n 7	15 11	1 18	8 56	0 59	22 50	0 42	23 24	0 6	22 3	0 51	20 55	0 6	22 18	1 4	14 19	8 56	23 24	23 25	24 0	17 28	4 37			
T 13	7 40	24 5	1 22	15 45	1 25	9 25	0 57	22 47	0 43	23 23	0 6	22 3	0 51	20 56	0 6	22 18	1 4	14 19	8 56	23 24	23 25	24 1	17 29	4 36			
W 14	8 3	23 5	2 31	16 19	1 32	9 53	0 55	22 45	0 45	23 23	0 6	22 3	0 51	20 56	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 1	17 30	4 36			
T 15	8 25	20 39	3 30	16 52	1 38	10 21	0 54	22 43	0 46	23 23	0 6	22 3	0 51	20 57	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 2	17 31	4 36			
F 16	8 47	17 1	4 17	17 24	1 45	10 49	0 52	22 40	0 48	23 23	0 6	22 3	0 51	20 57	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 2	17 32	4 36			
S 17	9 9	12 31	4 48	17 55	1 51	11 17	0 50	22 38	0 50	23 22	0 6	22 3	0 51	20 58	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 3	17 33	4 36			
S 18	9 31	7 25	5 3	18 25	1 57	11 45	0 48	22 35	0 52	23 22	0 7	22 3	0 51	20 58	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 3	17 34	4 36			
M 19	9 53	2 3	5 0	18 54	2 3	12 12	0 46	22 33	0 53	23 22	0 7	22 3	0 51	20 59	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 3	17 35	4 35			
T 20	10 14	3s20	4 41	19 22	2 9	12 39	0 44	22 30	0 55	23 21	0 7	22 3	0 51	20 59	0 6	22 18	1 4	14 18	8 57	23 24	23 25	24 4	17 36	4 35			
W 21	10 36	8 29	4 8	19 49	2 15	13 6	0 42	22 28	0 57	23 21	0 7	22 3	0 51	21 0	0 6	22 18	1 4	14 17	8 57	23 23	23 25	24 4	17 36	4 35			
T 22	10 57	13 11	3 23	20 15	2 20	13 32	0 40	22 26	0 59	23 21	0 7	22 3	0 51	21 1	0 6	22 18	1 4	14 17	8 58	23 23	23 25	24 5	17 37	4 35			
F 23	11 18	17 13	2 29	20 40	2 25	13 58	0 38	22 23	1 0	23 20	0 7	22 3	0 51	21 1	0 6	22 18	1 4	14 17	8 58	23 23	23 25	24 5	17 38	4 35			
S 24	11 39	20 27	1 29	21 3	2 30	14 23	0 35	22 21	1 2	23 20	0 7	22 3	0 51	21 2	0 6	22 18	1 4	14 17	8 58	23 23	23 24	24 5	17 39	4 35			
S 25	12 0	22 45	0 26	21 26	2 34	15 49	0 33	22 18	1 4	23 19	0 7	22 3	0 51	21 2	0 6	22 18	1 4	14 17	8 58	23 23	23 24	24 6	17 40	4 35			
M 26	12 20	24 0	0s38	21 47	2 39	15 14	0 31	22 16	1 6	23 19	0 7	22 3	0 51	21 3	0 6	22 18	1 4	14 17	8 58	23 23	23 24	24 6	17 41	4 35			
T 27	12 41	24 9	1 40	22 7	2 42	15 38	0 29	22 13	1 8	23 19	0 7	22 3	0 51	21 3	0 6	22 18	1 4	14 17	8 58	23 23	23 24	24 6	17 42	4 34			
W 28	13 1	23 14	2 37	22 26	2 46	16 2	0 26	22 11	1 10	23 18	0 7	22 3	0 51	21 4	0 6	22 18	1 3	14 16	8 58	23 23	23 24	24 7	17 43	4 34			
T 29	13 21	21 15	3 29	22 44	2 49	16 26	0 24	22 9	1 12	23 18	0 8	22 3	0 51	21 5	0 6	22 18	1 3	14 16	8 58	23 23	23 24	24 7	17 44	4 34			
F 30	13 41	18 19	4 12	23 0	2 51	16 49	0 22	22 7	1 14	23 17	0 8	22 3	0 51	21 5	0 6	22 18	1 3	14 16	8 58	23 23	23 24	24 8	17 45	4 34			
S 31	14s 0	14s30	4s44	23s14	2s53	17s12	0n19	22n 4	1n16	23s17	0s 8	22n 3	0s51	21s 6	0n 6	22s18	1n 3	14n16	8s59	23n23	23n24	24s 8	17s45	4n34			

ASTRODIENST EPHEMERIS for the year 2150
geocentric

DECEMBER 2150

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 39 20	8♌41'51	21♍6	21°D18	27♌57	3♏28	14♌22	10°R39	7♌20	5♌3	22°R25	25°R34	26♏12	13♌53	16♌12	T 1
W 2	4 43 16	9°42'36	5♌4	21♏28	29°12	3°30	14°35	10♌35	7°23	5°5	22♏24	25♏32	26°9	13°59	16°19	W 2
T 3	4 47 13	10°43'22	19°28	21°47	0♌26	3°33	14°47	10°31	7°27	5°7	22°23	25°30	26°6	14°6	16°26	T 3
F 4	4 51 9	11°44'08	4♏12	22°15	1°41	3°34	15°0	10°27	7°31	5°10	22°22	25°28	26°3	14°12	16°34	F 4
S 5	4 55 6	12°44'56	19°9	22°51	2°56	3°R34	15°13	10°23	7°34	5°12	22°20	25°D28	26°0	14°19	16°41	S 5
S 6	4 59 2	13°45'46	4♌12	23°35	4°11	3°34	15°26	10°19	7°38	5°14	22°19	25°28	25°56	14°26	16°48	S 6
M 7	5 2 59	14°46'36	19°12	24°24	5°26	3°33	15°39	10°15	7°42	5°16	22°18	25°28	25°53	14°32	16°55	M 7
T 8	5 6 56	15°47'28	4♏1	25°19	6°41	3°31	15°52	10°10	7°45	5°18	22°17	25°29	25°50	14°39	17°3	T 8
W 9	5 10 52	16°48'21	18°33	26°19	7°56	3°29	16°5	10°6	7°49	5°20	22°16	25°30	25°47	14°46	17°10	W 9
T 10	5 14 49	17°49'15	2♏43	27°23	9°11	3°25	16°18	10°2	7°53	5°22	22°15	25°30	25°44	14°52	17°17	T 10
F 11	5 18 45	18°50'11	16°32	28°30	10°26	3°21	16°31	9°57	7°56	5°25	22°13	25°R31	25°41	14°59	17°24	F 11
S 12	5 22 42	19°51'07	29°59	29°41	11°40	3°15	16°44	9°53	8°0	5°27	22°12	25°31	25°37	15°6	17°32	S 12
S 13	5 26 38	20°52'05	13♌5	0♌54	12°55	3°9	16°57	9°48	8°4	5°29	22°11	25°30	25°34	15°12	17°39	S 13
M14	5 30 35	21°53'04	25°53	2°10	14°10	3°2	17°10	9°44	8°7	5°31	22°10	25°30	25°31	15°19	17°46	M14
T 15	5 34 31	22°54'05	8♏26	3°28	15°25	2°54	17°24	9°39	8°11	5°34	22°9	25°29	25°28	15°26	17°53	T 15
W16	5 38 28	23°55'06	20°46	4°48	16°40	2°46	17°37	9°34	8°15	5°36	22°8	25°29	25°25	15°32	18°1	W16
T 17	5 42 25	24°56'08	2♌55	6°9	17°55	2°36	17°51	9°30	8°18	5°38	22°6	25°29	25°22	15°39	18°8	T 17
F 18	5 46 21	25°57'11	14°56	7°32	19°9	2°26	18°4	9°25	8°22	5°40	22°5	25°D29	25°18	15°46	18°15	F 18
S 19	5 50 18	26°58'15	26°51	8°56	20°24	2°15	18°18	9°20	8°25	5°42	22°4	25°R29	25°15	15°52	18°22	S 19
S 20	5 54 14	27°59'20	8♌41	10°20	21°39	2°3	18°31	9°15	8°29	5°45	22°3	25°29	25°12	15°59	18°29	S 20
M21	5 58 11	29°0'25	20°29	11°46	22°54	1°50	18°45	9°11	8°32	5°47	22°2	25°29	25°9	16°6	18°37	M21
T 22	6 2 7	0♌1'31	2♌16	13°12	24°9	1°36	18°58	9°6	8°36	5°49	22°1	25°28	25°6	16°12	18°44	T 22
W23	6 6 4	1°2'37	14°7	14°40	25°23	1°22	19°12	9°1	8°39	5°52	22°0	25°28	25°2	16°19	18°51	W23
T 24	6 10 1	2°3'44	26°2	16°7	26°38	1°6	19°26	8°56	8°43	5°54	21°58	25°27	24°59	16°26	18°58	T 24
F 25	6 13 57	3°4'50	8♏8	17°36	27°53	0°50	19°39	8°51	8°46	5°56	21°57	25°26	24°56	16°32	19°5	F 25
S 26	6 17 54	4°5'57	20°26	19°4	29°8	0°34	19°53	8°46	8°50	5°58	21°56	25°25	24°53	16°39	19°12	S 26
S 27	6 21 50	5°7'04	3♍1	20°34	0♌22	0°16	20°7	8°41	8°53	6°1	21°55	25°D25	24°50	16°46	19°19	S 27
M28	6 25 47	6°8'11	15°57	22°3	1°37	29♌58	20°21	8°36	8°57	6°3	21°54	25°25	24°47	16°52	19°26	M28
T 29	6 29 43	7°9'19	29°18	23°34	2°52	29°40	20°34	8°31	9°0	6°5	21°53	25°26	24°43	16°59	19°33	T 29
W30	6 33 40	8°10'26	13♌5	25°4	4°6	29°20	20°48	8°26	9°3	6°7	21°52	25°27	24°40	17°6	19°40	W30
T 31	6 37 36	9♌11'33	27♌20	26♌35	5♌21	29♌0	21♌2	8♌21	9♌7	6♌10	21♏50	25♏28	24♏37	17♌12	19♌47	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	21s44	3n49	4s46	15s37	2n33	24s20	0s56	21n47	2n29	22s49	0s10	22n10	0s50	21s25	0n6	22s17
W 2	21 53	9 22	4 4	15 37	2 35	24 23	0 58	21 49	2 32	22 48	0 10	22 10	0 50	21 26	0 6	22 17
T 3	22 2	14 35	3 7	15 41	2 36	24 25	1 0	21 51	2 35	22 46	0 10	22 11	0 50	21 26	0 6	22 17
F 4	22 11	19 5	1 55	15 49	2 35	24 27	1 2	21 54	2 38	22 45	0 11	22 11	0 50	21 27	0 6	22 17
S 5	22 18	22 24	0 35	15 59	2 34	24 27	1 4	21 56	2 40	22 44	0 11	22 11	0 50	21 28	0 6	22 17
S 6	22 26	24 10	0n48	16 13	2 31	24 28	1 6	21 59	2 43	22 42	0 11	22 12	0 50	21 28	0 6	22 17
M 7	22 33	24 10	2 8	16 28	2 28	24 27	1 8	22 2	2 46	22 41	0 11	22 12	0 50	21 29	0 6	22 17
T 8	22 40	22 27	3 18	16 46	2 23	24 25	1 10	22 5	2 49	22 39	0 11	22 12	0 49	21 30	0 6	22 17
W 9	22 46	19 17	4 14	17 4	2 18	24 23	1 12	22 9	2 52	22 38	0 11	22 13	0 49	21 30	0 6	22 17
T 10	22 52	15 3	4 53	17 24	2 13	24 20	1 14	22 12	2 55	22 37	0 11	22 13	0 49	21 31	0 6	22 16
F 11	22 57	10 8	5 14	17 45	2 6	24 16	1 16	22 16	2 57	22 35	0 11	22 14	0 49	21 31	0 6	22 16
S 12	23 2	4 51	5 17	18 7	2 0	24 12	1 18	22 20	3 0	22 33	0 11	22 14	0 49	21 32	0 6	22 16
S 13	23 6	0s30	5 3	18 29	1 53	24 7	1 19	22 24	3 3	22 32	0 11	22 14	0 49	21 33	0 6	22 16
M14	23 10	5 44	4 34	18 51	1 46	24 1	1 21	22 29	3 6	22 30	0 11	22 15	0 49	21 33	0 6	22 16
T 15	23 14	10 38	3 53	19 13	1 39	23 54	1 23	22 33	3 9	22 29	0 11	22 15	0 49	21 34	0 6	22 16
W16	23 17	15 1	3 1	19 35	1 32	23 47	1 24	22 38	3 11	22 27	0 12	22 16	0 49	21 34	0 6	22 16
T 17	23 19	18 44	2 2	19 56	1 24	23 38	1 26	22 43	3 14	22 25	0 12	22 16	0 49	21 35	0 6	22 16
F 18	23 21	21 36	0 58	20 18	1 16	23 29	1 27	22 48	3 17	22 24	0 12	22 16	0 49	21 35	0 6	22 16
S 19	23 23	23 30	0s8	20 38	1 9	23 20	1 29	22 53	3 20	22 22	0 12	22 17	0 49	21 36	0 6	22 16
S 20	23 24	24 21	1 13	20 59	1 1	23 10	1 30	22 59	3 23	22 20	0 12	22 17	0 49	21 37	0 6	22 16
M21	23 25	24 5	2 15	21 18	0 53	22 59	1 31	23 4	3 25	22 18	0 12	22 18	0 49	21 37	0 6	22 16
T 22	23 25	22 44	3 11	21 37	0 45	22 47	1 32	23 10	3 28	22 17	0 12	22 18	0 48	21 38	0 6	22 16
W23	23 25	20 23	3 59	21 55	0 38	22 35	1 34	23 16	3 31	22 15	0 12	22 19	0 48	21 38	0 6	22 15
T 24	23 24	17 10	4 37	22 12	0 30	22 22	1 35	23 22	3 33	22 13	0 12	22 19	0 48	21 39	0 6	22 15
F 25	23 23	13 12	5 3	22 28	0 22	22 8	1 36	23 28	3 36	22 11	0 12	22 19	0 48	21 39	0 6	22 15
S 26	23 21	8 38	5 16	22 43	0 15	21 54	1 37	23 34	3 38	22 9	0 12	22 20	0 48	21 40	0 6	22 15
S 27	23 19	3 37	5 15	22 58	0 8	21 39	1 38	23 40	3 41	22 7	0 12	22 20	0 48	21 40	0 6	22 15
M28	23 17	1n42	4 57	23 11	0 0	21 23	1 38	23 46	3 43	22 5	0 13	22 21	0 48	21 41	0 6	22 15
T 29	23 14	7 6	4 24	23 23	0s7	21 7	1 39	23 53	3 45	22 3	0 13	22 21	0 48	21 41	0 5	22 15
W30	23 10	12 21	3 34	23 34	0 14	20 50	1 40	23 59	3 48	22 1	0 13	22 22	0 48	21 42	0 5	22 15
T 31	23s6	17n7	2s30	23s44	0s21	20s33	1s41	24n5	3n50	21s59	0s13	22n22	0s48	21s43	0n5	22s15

Julian Day Number = 2506665.5, Delta T = 122.29 sec
Ecliptic obliquity = 23°25'11, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°50'57, Lahiri = 25°57'57