



# Astrodienst Ephemeris Tables for the year 2051

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 2051

## geocentric

JANUARY 2051

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 26	10°32'51	24°48'48	18°29'51	23°43'43	5°28'28	5°R41	7°47'47	25°R33	25°R54	8°48'48	9°R38	8°M39	28°M38	18°29'51	S 1
M 2	6 46 23	11°30'59	6°M57	19°12'48	24°46'46	6°7'7	5°M39	7°54'54	25°M33	25°R53	8°49'49	9°M30	8°36'36	28°45'45	18°12'12	M 2
T 3	6 50 19	12°32'07	18°54'54	20°20'20	25°49'49	6°45'45	5°37'37	8°1'1	25°32'32	25°52'52	8°50'50	9°25'25	8°33'33	28°52'52	18°19'19	T 3
W 4	6 54 16	13°33'16	0°A44	21°30'30	26°53'53	7°23'23	5°34'34	8°7'7	25°32'32	25°51'51	8°51'51	9°21'21	8°30'30	28°58'58	18°26'26	W 4
T 5	6 58 12	14°34'25	12°33'33	22°42'42	27°57'57	8°2'2	5°32'32	8°14'14	25°32'32	25°50'50	8°52'52	9°D20	8°26'26	29°5'5	18°33'33	T 5
F 6	7 2 9	15°35'35	24°26'26	23°56'56	29°1'1	8°40'40	5°29'29	8°21'21	25°32'32	25°49'49	8°53'53	9°21'21	8°23'23	29°12'12	18°39'39	F 6
S 7	7 6 6	16°36'44	6°M27	25°12'12	0°29'29	9°19'19	5°26'26	8°28'28	25°31'31	25°48'48	8°55'55	9°R21	8°20'20	29°18'18	18°46'46	S 7
S 8	7 10 2	17°37'54	18°43'43	26°30'30	1°11'11	9°58'58	5°23'23	8°34'34	25°31'31	25°47'47	8°56'56	9°21'21	8°17'17	29°25'25	18°52'52	S 8
M 9	7 13 59	18°39'04	1°M18	27°48'48	2°16'16	10°36'36	5°19'19	8°41'41	25°30'30	25°46'46	8°57'57	9°19'19	8°14'14	29°32'32	18°59'59	M 9
T 10	7 17 55	19°40'14	14°15'15	29°9'9	3°21'21	11°15'15	5°15'15	8°48'48	25°30'30	25°45'45	8°58'58	9°14'14	8°11'11	29°38'38	19°6'6	T 10
W 11	7 21 52	20°41'24	27°37'37	0°B30	4°27'27	11°54'54	5°12'12	8°55'55	25°29'29	25°44'44	8°59'59	9°6'6	8°7'7	29°45'45	19°12'12	W 11
T 12	7 25 48	21°42'34	11°B33	1°52'52	5°33'33	12°33'33	5°8'8	9°2'2	25°29'29	25°43'43	9°0'0	8°56'56	8°4'4	29°52'52	19°19'19	T 12
F 13	7 29 45	22°43'43	25°30'30	3°15'15	6°39'39	13°11'11	5°4'4	9°9'9	25°28'28	25°43'43	9°2'2	8°45'45	8°1'1	29°58'58	19°25'25	F 13
S 14	7 33 42	23°44'52	9°A53	4°40'40	7°45'45	13°50'50	4°59'59	9°16'16	25°27'27	25°42'42	9°3'3	8°32'32	7°58'58	0°A5	19°31'31	S 14
S 15	7 37 38	24°46'01	24°25'25	6°5'5	8°52'52	14°29'29	4°55'55	9°23'23	25°26'26	25°41'41	9°4'4	8°21'21	7°55'55	0°12'12	19°38'38	S 15
M 16	7 41 35	25°47'09	8°H59	7°31'31	9°59'59	15°8'8	4°50'50	9°30'30	25°25'25	25°41'41	9°5'5	8°12'12	7°51'51	0°18'18	19°44'44	M 16
T 17	7 45 31	26°48'16	23°30'30	8°57'57	11°6'6	15°47'47	4°45'45	9°37'37	25°24'24	25°40'40	9°6'6	8°6'6	7°48'48	0°25'25	19°50'50	T 17
W 18	7 49 28	27°49'23	7°Y51	10°25'25	12°13'13	16°26'26	4°40'40	9°44'44	25°23'23	25°39'39	9°8'8	8°3'3	7°45'45	0°32'32	19°56'56	W 18
T 19	7 53 24	28°50'29	22°1'1	11°53'53	13°20'20	17°5'5	4°35'35	9°51'51	25°22'22	25°39'39	9°9'9	8°1'1	7°42'42	0°38'38	20°2'2	T 19
F 20	7 57 21	29°51'34	5°B57	13°21'21	14°28'28	17°44'44	4°30'30	9°59'59	25°21'21	25°38'38	9°10'10	8°1'1	7°39'39	0°45'45	20°8'8	F 20
S 21	8 1 17	0°A52'38	19°42'42	14°51'51	15°36'36	18°23'23	4°24'24	10°6'6	25°20'20	25°38'38	9°12'12	8°1'1	7°36'36	0°52'52	20°15'15	S 21
S 22	8 5 14	1°53'41	3°I15	16°20'20	16°44'44	19°3'3	4°19'19	10°13'13	25°19'19	25°37'37	9°13'13	7°59'59	7°32'32	0°58'58	20°20'20	S 22
M 23	8 9 11	2°54'44	16°36'36	17°51'51	17°52'52	19°42'42	4°13'13	10°20'20	25°18'18	25°37'37	9°14'14	7°55'55	7°29'29	1°5'5	20°26'26	M 23
T 24	8 13 7	3°55'45	29°48'48	19°22'22	19°0'0	20°21'21	4°7'7	10°27'27	25°17'17	25°36'36	9°16'16	7°47'47	7°26'26	1°12'12	20°32'32	T 24
W 25	8 17 4	4°56'46	12°B48	20°54'54	20°9'9	21°0'0	4°1'1	10°34'34	25°15'15	25°36'36	9°17'17	7°37'37	7°23'23	1°18'18	20°38'38	W 25
T 26	8 21 0	5°57'45	25°38'38	22°27'27	21°17'17	21°39'39	3°55'55	10°41'41	25°14'14	25°36'36	9°19'19	7°24'24	7°20'20	1°25'25	20°44'44	T 26
F 27	8 24 57	6°58'44	8°Q16	24°0'0	22°26'26	22°18'18	3°48'48	10°49'49	25°12'12	25°35'35	9°20'20	7°10'10	7°17'17	1°32'32	20°50'50	F 27
S 28	8 28 53	7°59'42	20°42'42	25°33'33	23°35'35	22°58'58	3°42'42	10°56'56	25°11'11	25°35'35	9°21'21	6°55'55	7°13'13	1°38'38	20°55'55	S 28
S 29	8 32 50	9°0'39	2°M56	27°8'8	24°44'44	23°37'37	3°36'36	11°3'3	25°9'9	25°35'35	9°23'23	6°42'42	7°10'10	1°45'45	21°1'1	S 29
M 30	8 36 46	10°1'35	14°59'59	28°43'43	25°53'53	24°16'16	3°29'29	11°10'10	25°8'8	25°35'35	9°24'24	6°31'31	7°7'7	1°52'52	21°6'6	M 30
T 31	8 40 43	11°A58'23	26°M54	0°A18	27°29'29	24°Y55	3°M22	11°A17	25°M6	25°B34	9°H26	6°M23	7°M4	1°A58	21°12'12	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23s 1	8n38	4s54	21s 6	1n49	15s35	3n13	2n 5	0s 6	10n24	1n 4	18s56	0s39	2n29	0n47	17n31
M 2	22 56	4 46	4 30	21 20	1 40	15 50	3 13	2 21	0 5	10 25	1 4	18 55	0 39	2 29	0 47	17 31
T 3	22 50	0 47	3 56	21 33	1 31	16 5	3 13	2 38	0 3	10 27	1 4	18 53	0 39	2 29	0 47	17 31
W 4	22 44	3s13	3 11	21 47	1 23	16 20	3 12	2 54	0 2	10 28	1 4	18 51	0 39	2 29	0 47	17 31
T 5	22 38	7 4	2 18	22 0	1 14	16 35	3 12	3 11	0 1	10 29	1 5	18 49	0 39	2 29	0 47	17 31
F 6	22 31	10 41	1 19	22 12	1 5	16 49	3 11	3 27	0n 1	10 30	1 5	18 48	0 39	2 30	0 47	17 31
S 7	22 24	13 55	0 15	22 24	0 57	17 4	3 10	3 43	0 2	10 32	1 5	18 46	0 39	2 30	0 47	17 30
S 8	22 16	16 35	0n50	22 35	0 48	17 18	3 10	4 0	0 3	10 33	1 5	18 44	0 39	2 30	0 47	17 30
M 9	22 8	18 33	1 54	22 45	0 40	17 32	3 8	4 16	0 5	10 35	1 6	18 42	0 39	2 30	0 47	17 30
T 10	21 59	19 37	2 54	22 54	0 31	17 45	3 7	4 32	0 6	10 36	1 6	18 41	0 39	2 30	0 47	17 30
W 11	21 50	19 38	3 47	23 3	0 23	17 59	3 6	4 49	0 7	10 38	1 6	18 39	0 39	2 31	0 47	17 30
T 12	21 41	18 30	4 28	23 10	0 15	18 12	3 5	5 5	0 8	10 39	1 6	18 37	0 39	2 31	0 47	17 30
F 13	21 31	16 13	4 53	23 17	0 7	18 24	3 3	5 21	0 9	10 41	1 7	18 35	0 39	2 31	0 47	17 29
S 14	21 21	12 56	5 1	23 22	0s 1	18 37	3 1	5 37	0 11	10 43	1 7	18 34	0 39	2 32	0 47	17 29
S 15	21 10	8 49	4 50	23 26	0 9	18 49	3 0	5 53	0 12	10 45	1 7	18 32	0 39	2 32	0 47	17 29
M 16	20 59	4 11	4 19	23 29	0 16	19 0	2 58	6 9	0 13	10 47	1 7	18 30	0 39	2 32	0 47	17 29
T 17	20 47	0n40	3 32	23 31	0 24	19 12	2 56	6 26	0 14	10 49	1 8	18 28	0 39	2 33	0 47	17 29
W 18	20 35	5 27	2 32	23 32	0 31	19 23	2 54	6 42	0 15	10 51	1 8	18 26	0 39	2 33	0 47	17 29
T 19	20 23	9 52	1 24	23 32	0 38	19 33	2 52	6 58	0 16	10 53	1 8	18 24	0 39	2 34	0 47	17 29
F 20	20 10	13 40	0 11	23 30	0 44	19 43	2 49	7 13	0 17	10 55	1 8	18 23	0 40	2 34	0 47	17 29
S 21	19 57	16 40	1s 1	23 27	0 51	19 53	2 47	7 29	0 18	10 57	1 8	18 21	0 40	2 35	0 47	17 29
S 22	19 44	18 41	2 9	23 23	0 57	20 2	2 44	7 45	0 19	10 59	1 9	18 19	0 40	2 35	0 47	17 29
M 23	19 30	19 38	3 9	23 17	1 4	20 11	2 42	8 1	0 20	11 2	1 9	18 17	0 40	2 36	0 47	17 29
T 24	19 16	19 29	3 57	23 11	1 9	20 20	2 39	8 17	0 21	11 4	1 9	18 15	0 40	2 36	0 47	17 29
W 25	19 1	18 17	4 33	23 3	1 15	20 28	2 37	8 32	0 22	11 7	1 9	18 13	0 40	2 37	0 48	17 29
T 26	18 46	16 12	4 54	22 53	1 20	20 35	2 34	8 48	0 23	11 9	1 10	18 11	0 40	2 37	0 48	17 29
F 27	18 31	13 22	5 0	22 42	1 26	20 42	2 31	9 3	0 24	11 11	1 10	18 9	0 40	2 38	0 48	17 29
S 28	18 16	9 59	4 51	22 30	1 30	20 49	2 28	9 19	0 25	11 14	1 10	18 7	0 40	2 39	0 48	17 29
S 29	18 0	6 14	4 29	22 17	1 35	20 55	2 25	9 34	0 26	11 17	1 10	18 6	0 40	2 39	0 48	17 29
M 30	17 44	2 17	3 56	22 2	1 39	21 0	2 22	9 50	0 27	11 19	1 10	18 4	0 40	2 40	0 48	17 29
T 31	17s27	1s42	3s12	21s46	1s43	21s 5	2n19	10n 5	0n28	11n22	1n10	18s 2	0s40	2n40	0n48	17n29

Julian Day Number = 2470172.5, Delta T = 74.87 sec  
 Ecliptic obliquity = 23°25'50, Nutation = 0°00'12, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°27'10, Lahiri = 24°34'10

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

FEBRUARY 2051

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 44 39	12♈ 3'25	8♌43	1♈55	28♌12	25♌35	3°R15	11♈25	25°R 5	25°R34	9♈27	6°R17	7♌1	2♌5	21♌17	W 1
T 2	8 48 36	13° 4'19	20°30	3°32	29°21	26°14	3♌8	11°32	25°R 3	25°R34	9°29	6°R15	6°57	2°12	21°22	T 2
F 3	8 52 33	14° 5'12	2♌21	5° 9	0♌31	26°53	3° 1	11°39	25° 1	25°34	9°30	6°D14	6°54	2°18	21°28	F 3
S 4	8 56 29	15° 6'05	14°20	6°48	1°41	27°33	2°54	11°46	24°59	25°34	9°32	6°R14	6°51	2°25	21°33	S 4
S 5	9 0 26	16° 6'56	26°33	8°27	2°51	28°12	2°47	11°53	24°58	25°D34	9°33	6°13	6°48	2°32	21°38	S 5
M 6	9 4 22	17° 7'47	9♌6	10° 7	4° 1	28°51	2°39	12° 0	24°56	25°34	9°35	6°12	6°45	2°38	21°43	M 6
T 7	9 8 19	18° 8'37	22° 2	11°48	5°11	29°31	2°32	12° 8	24°54	25°34	9°36	6° 7	6°42	2°45	21°48	T 7
W 8	9 12 15	19° 9'26	5♌26	13°29	6°21	0♌10	2°24	12°15	24°52	25°34	9°38	6° 1	6°38	2°52	21°53	W 8
T 9	9 16 12	20°10'14	19°19	15°11	7°31	0°49	2°17	12°22	24°50	25°34	9°39	5°51	6°35	2°58	21°58	T 9
F 10	9 20 9	21°11'00	3♌39	16°54	8°42	1°29	2° 9	12°29	24°48	25°35	9°41	5°40	6°32	3° 5	22° 3	F 10
S 11	9 24 5	22°11'46	18°20	18°38	9°52	2° 8	2° 2	12°36	24°46	25°35	9°43	5°29	6°29	3°12	22° 7	S 11
S 12	9 28 2	23°12'30	3♌15	20°23	11° 3	2°47	1°54	12°43	24°44	25°35	9°44	5°18	6°26	3°18	22°12	S 12
M13	9 31 58	24°13'13	18°15	22° 8	12°13	3°27	1°46	12°50	24°42	25°35	9°46	5° 9	6°23	3°25	22°16	M13
T 14	9 35 55	25°13'54	3♌11	23°55	13°24	4° 6	1°38	12°57	24°40	25°36	9°47	5° 3	6°19	3°32	22°21	T 14
W15	9 39 51	26°14'34	17°54	25°42	14°35	4°46	1°30	13° 5	24°37	25°36	9°49	4°59	6°16	3°38	22°25	W15
T 16	9 43 48	27°15'12	2♌19	27°30	15°46	5°25	1°22	13°12	24°35	25°36	9°51	4°D58	6°13	3°45	22°30	T 16
F 17	9 47 44	28°15'48	16°25	29°18	16°57	6° 4	1°15	13°19	24°33	25°37	9°52	4°58	6°10	3°52	22°34	F 17
S 18	9 51 41	29°16'22	0♌11	1♌8	18° 8	6°44	1° 7	13°26	24°31	25°37	9°54	4°R59	6° 7	3°58	22°38	S 18
S 19	9 55 37	0♌16'55	13°37	2°58	19°19	7°23	0°59	13°33	24°28	25°38	9°55	4°58	6° 3	4° 5	22°42	S 19
M20	9 59 34	1°17'26	26°47	4°49	20°30	8° 2	0°51	13°40	24°26	25°38	9°57	4°55	6° 0	4°12	22°46	M20
T 21	10 3 31	2°17'55	9♌42	6°40	21°41	8°42	0°43	13°47	24°24	25°39	9°59	4°49	5°57	4°18	22°50	T 21
W22	10 7 27	3°18'22	22°24	8°32	22°53	9°21	0°35	13°54	24°21	25°39	10° 0	4°41	5°54	4°25	22°54	W22
T 23	10 11 24	4°18'48	4♌55	10°25	24° 4	10° 1	0°27	14° 0	24°19	25°40	10° 2	4°31	5°51	4°32	22°58	T 23
F 24	10 15 20	5°19'12	17°15	12°18	25°15	10°40	0°19	14° 7	24°17	25°41	10° 4	4°20	5°48	4°38	23° 1	F 24
S 25	10 19 17	6°19'33	29°27	14°11	26°27	11°19	0°11	14°14	24°14	25°41	10° 5	4° 8	5°44	4°45	23° 5	S 25
S 26	10 23 13	7°19'54	11♌31	16° 4	27°39	11°59	0° 4	14°21	24°12	25°42	10° 7	3°58	5°41	4°52	23° 8	S 26
M27	10 27 10	8°20'12	23°27	17°57	28°50	12°38	29♌56	14°28	24° 9	25°43	10° 8	3°49	5°38	4°58	23°12	M27
T 28	10 31 6	9♌20'29	5♌18	19♌49	0♌2	13♌17	29♌48	14♌35	24♌7	25♌43	10♌10	3♌42	5♌35	5♌5	23♌15	T 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	decl	lat
W 1	17s10	5s36	2s20	21s28	1s47	21s 9	2n16	10n20	0n29	11n24	1n11	18s 0	0s40	2n41	0n48	17n29	1s43	19s53	12s51	13s37	13s51	3s32	18s21	4n48			
T 2	16 53	9 17	1 22	21 9	1 50	21 13	2 13	10 35	0 30	11 27	1 11	17 58	0 40	2 42	0 48	17 29	1 43	19 53	12 51	13 36	13 50	3 34	18 21	4 49			
F 3	16 36	12 36	0 21	20 48	1 54	21 16	2 9	10 50	0 31	11 30	1 11	17 56	0 40	2 43	0 48	17 29	1 43	19 52	12 51	13 36	13 49	3 36	18 21	4 49			
S 4	16 18	15 27	0n43	20 27	1 56	21 19	2 6	11 5	0 32	11 33	1 11	17 54	0 41	2 43	0 48	17 29	1 43	19 51	12 51	13 36	13 48	3 38	18 21	4 50			
S 5	16 0	17 40	1 46	20 3	1 59	21 21	2 3	11 20	0 32	11 35	1 11	17 52	0 41	2 44	0 48	17 29	1 43	19 51	12 51	13 35	13 47	3 40	18 20	4 50			
M 6	15 42	19 5	2 45	19 38	2 1	21 23	1 59	11 35	0 33	11 38	1 12	17 50	0 41	2 45	0 48	17 29	1 43	19 50	12 51	13 35	13 46	3 42	18 20	4 51			
T 7	15 23	19 34	3 38	19 12	2 3	21 24	1 56	11 49	0 34	11 41	1 12	17 48	0 41	2 46	0 48	17 29	1 43	19 49	12 51	13 33	13 45	3 44	18 20	4 51			
W 8	15 4	18 59	4 20	18 45	2 4	21 25	1 52	12 4	0 35	11 44	1 12	17 46	0 41	2 46	0 48	17 29	1 43	19 49	12 51	13 31	13 44	3 46	18 20	4 52			
T 9	14 45	17 16	4 49	18 16	2 5	21 24	1 49	12 19	0 36	11 47	1 12	17 44	0 41	2 47	0 48	17 29	1 43	19 48	12 51	13 28	13 43	3 48	18 20	4 52			
F 10	14 26	14 27	5 1	17 45	2 5	21 24	1 45	12 33	0 36	11 50	1 12	17 42	0 41	2 48	0 48	17 29	1 43	19 47	12 51	13 24	13 42	3 50	18 19	4 53			
S 11	14 6	10 40	4 54	17 13	2 5	21 23	1 42	12 47	0 37	11 52	1 12	17 40	0 41	2 49	0 48	17 29	1 43	19 47	12 50	13 21	13 41	3 52	18 19	4 53			
S 12	13 47	6 9	4 27	16 40	2 5	21 21	1 38	13 2	0 38	11 55	1 12	17 39	0 41	2 50	0 48	17 29	1 42	19 46	12 50	13 17	13 39	3 54	18 19	4 54			
M13	13 27	1 15	3 41	16 5	2 4	21 18	1 34	13 16	0 39	11 58	1 12	17 37	0 41	2 51	0 48	17 30	1 42	19 45	12 50	13 14	13 38	3 56	18 18	4 54			
T 14	13 6	3n43	2 40	15 29	2 3	21 15	1 31	13 30	0 39	12 1	1 13	17 35	0 41	2 51	0 48	17 30	1 42	19 45	12 50	13 12	13 37	3 58	18 18	4 55			
W15	12 46	8 24	1 30	14 51	2 2	21 12	1 27	13 44	0 40	12 4	1 13	17 33	0 41	2 52	0 48	17 30	1 42	19 44	12 50	13 11	13 36	4 0	18 18	4 56			
T 16	12 25	12 30	0 14	14 12	1 59	21 7	1 23	13 58	0 41	12 7	1 13	17 31	0 41	2 53	0 48	17 30	1 42	19 43	12 50	13 10	13 35	4 2	18 17	4 56			
F 17	12 4	15 46	1s 1	13 32	1 57	21 2	1 20	14 12	0 41	12 10	1 13	17 29	0 42	2 54	0 48	17 30	1 42	19 43	12 50	13 10	13 34	4 4	18 17	4 57			
S 18	11 43	18 4	2 10	12 50	1 53	20 57	1 16	14 25	0 42	12 13	1 13	17 27	0 42	2 55	0 48	17 30	1 42	19 42	12 50	13 11	13 33	4 6	18 17	4 57			
S 19	11 22	19 16	3 11	12 7	1 50	20 51	1 12	14 39	0 43	12 16	1 13	17 25	0 42	2 56	0 48	17 30	1 42	19 41	12 50	13 10	13 32	4 8	18 16	4 58			
M20	11 1	19 24	4 0	11 23	1 45	20 44	1 8	14 52	0 43	12 19	1 13	17 23	0 42	2 57	0 48	17 31	1 42	19 41	12 50	13 9	13 31	4 10	18 16	4 58			
T 21	10 39	18 30	4 36	10 37	1 41	20 37	1 5	15 6	0 44	12 21	1 13	17 21	0 42	2 58	0 48	17 31	1 42	19 40	12 50	13 7	13 30	4 12	18 16	4 59			
W22	10 17	16 41	4 57	9 50	1 35	20 29	1 1	15 19	0 45	12 24	1 13	17 19	0 42	2 59	0 48	17 31	1 42	19 39	12 50	13 5	13 29	4 14	18 15	5 0			
T 23	9 56	14 7	5 4	9 2	1 29	20 21	0 57	15 32	0 45	12 27	1 13	17 17	0 42	3 0	0 48	17 31	1 42	19 39	12 50	13 1	13 28	4 16	18 15	5 0			
F 24	9 33	10 57	4 56	8 13	1 22	20 12	0 53	15 45	0 46	12 30	1 13	17 15	0 42	3 1	0 48	17 31	1 42	19 38	12 50	12 58	13 27	4 18	18 14	5 1			
S 25	9 11	7 21	4 35	7 23	1 15	20 3	0 50	15 58	0 47	12 33	1 14	17 14	0 42	3 2	0 48	17 32	1 42	19 38	12 50	12 54	13 26	4 19	18 14	5 2			
S 26	8 49	3 31	4 2	6 32	1 7	19 53	0 46	16 10	0 47	12 36	1 14	17 12	0 42	3 3	0 48	17 32	1 42	19 37	12 50	12 50	13 25	4 21	18 13	5 2			
M27	8 26	0s26	3 18	5 40	0 59	19 42	0 42	16 23	0 48	12 39	1 14	17 10	0 42	3 4	0 48	17 32	1 42	19 36	12 50	12 47	13 24	4 23	18 13	5 3			
T 28	8s 4	4s21	2s26	4s47	0s49	19s31	0n38	16n36	0n48	12n41	1n14	17s 8	0s43	3n 5	0n48	17n32	1s41	19s36	12s50	12s45	13s23	4s25	18s13	5n 3			

Julian Day Number = 2470203.5, Delta T = 74.90 sec  
 Ecliptic obliquity = 23°25'50, Nutation = 0°00'12, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°27'14, Lahiri = 24°34'15

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

MARCH 2051

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	10 35 3	10 <del>℥</del> 20'44	17 <del>♁</del> 6	21 <del>℥</del> 41	1 <del>≈</del> 13	13 <del>♊</del> 57	29 <del>℞</del> 40	14 <del>≈</del> 41	24 <del>℞</del> 4	25 <del>♋</del> 44	10 <del>℥</del> 12	3 <del>℞</del> R38	5 <del>℥</del> L32	5 <del>♁</del> 12	23 <del>♊</del> 18	W 1
T 2	10 39 0	11°20'58	28°54	23°31	2°25	14°36	29 <del>♋</del> 33	14°48	24 <del>♎</del> 2	25°45	10°13	3 <del>℞</del> D36	5°28	5°18	23°22	T 2
F 3	10 42 56	12°21'10	10 <del>℥</del> L45	25°21	3°37	15°15	29°25	14°55	23°59	25°46	10°15	3 <del>℥</del> L37	5°25	5°25	23°25	F 3
S 4	10 46 53	13°21'21	22°43	27° 8	4°49	15°55	29°18	15° 1	23°57	25°47	10°17	3°38	5°22	5°32	23°28	S 4
S 5	10 50 49	14°21'30	4 <del>℞</del> 55	28°54	6° 1	16°34	29°10	15° 8	23°54	25°48	10°18	3°39	5°19	5°38	23°31	S 5
M 6	10 54 46	15°21'37	17°24	0 <del>℥</del> 36	7°13	17°13	29° 3	15°14	23°52	25°49	10°20	3 <del>℞</del> R39	5°16	5°45	23°33	M 6
T 7	10 58 42	16°21'43	0 <del>♁</del> 16	2°15	8°25	17°53	28°56	15°21	23°49	25°50	10°22	3°38	5°13	5°52	23°36	T 7
W 8	11 2 39	17°21'48	13°34	3°51	9°37	18°32	28°48	15°28	23°46	25°51	10°23	3°35	5° 9	5°58	23°39	W 8
T 9	11 6 35	18°21'51	27°22	5°22	10°49	19°11	28°41	15°34	23°44	25°52	10°25	3°30	5° 6	6° 5	23°41	T 9
F 10	11 10 32	19°21'52	11 <del>≈</del> 39	6°49	12° 1	19°50	28°34	15°40	23°41	25°53	10°26	3°24	5° 3	6°12	23°44	F 10
S 11	11 14 29	20°21'51	26°21	8°10	13°13	20°30	28°27	15°47	23°39	25°54	10°28	3°17	5° 0	6°18	23°46	S 11
S 12	11 18 25	21°21'49	11 <del>℥</del> 23	9°25	14°25	21° 9	28°20	15°53	23°36	25°55	10°30	3°11	4°57	6°25	23°48	S 12
M13	11 22 22	22°21'44	26°35	10°34	15°38	21°48	28°14	15°59	23°33	25°57	10°31	3° 5	4°54	6°32	23°50	M13
T 14	11 26 18	23°21'38	11 <del>℥</del> 48	11°36	16°50	22°27	28° 7	16° 6	23°31	25°58	10°33	3° 2	4°50	6°38	23°52	T 14
W15	11 30 15	24°21'30	26°50	12°30	18° 2	23° 7	28° 1	16°12	23°28	25°59	10°34	3 <del>℞</del> D 0	4°47	6°45	23°54	W15
T 16	11 34 11	25°21'20	11 <del>♁</del> 35	13°17	19°15	23°46	27°54	16°18	23°25	26° 0	10°36	3° 0	4°44	6°52	23°56	T 16
F 17	11 38 8	26°21'07	25°57	13°57	20°27	24°25	27°48	16°24	23°23	26° 2	10°38	3° 1	4°41	6°58	23°58	F 17
S 18	11 42 4	27°20'52	9 <del>℥</del> L54	14°28	21°39	25° 4	27°42	16°30	23°20	26° 3	10°39	3° 3	4°38	7° 5	24° 0	S 18
S 19	11 46 1	28°20'35	23°27	14°50	22°52	25°43	27°36	16°36	23°18	26° 4	10°41	3 <del>℞</del> R 4	4°34	7°12	24° 1	S 19
M20	11 49 58	29°20'16	6 <del>♁</del> 37	15° 5	24° 4	26°23	27°30	16°42	23°15	26° 6	10°42	3° 4	4°31	7°18	24° 3	M20
T 21	11 53 54	0 <del>℥</del> 19'54	19°26	15°R11	25°17	27° 2	27°24	16°48	23°12	26° 7	10°44	3° 2	4°28	7°25	24° 4	T 21
W22	11 57 51	1°19'30	1 <del>♁</del> L59	15° 9	26°29	27°41	27°19	16°54	23°10	26° 9	10°46	2°59	4°25	7°32	24° 5	W22
T 23	12 1 47	2°19'04	14°19	14°59	27°42	28°20	27°14	16°59	23° 7	26°10	10°47	2°55	4°22	7°38	24° 7	T 23
F 24	12 5 44	3°18'36	26°28	14°41	28°54	28°59	27° 8	17° 5	23° 5	26°11	10°49	2°50	4°19	7°45	24° 8	F 24
S 25	12 9 40	4°18'05	8 <del>♎</del> 28	14°17	0 <del>℥</del> 7	29°38	27° 3	17°11	23° 2	26°13	10°50	2°44	4°15	7°52	24° 9	S 25
S 26	12 13 37	5°17'32	20°23	13°46	1°19	0 <del>℥</del> 117	26°58	17°16	23° 0	26°15	10°52	2°40	4°12	7°58	24°10	S 26
M27	12 17 33	6°16'57	2 <del>♁</del> L13	13°10	2°32	0°56	26°54	17°22	22°57	26°16	10°53	2°36	4° 9	8° 5	24°10	M27
T 28	12 21 30	7°16'20	14° 2	12°29	3°44	1°35	26°49	17°27	22°55	26°18	10°55	2°33	4° 6	8°12	24°11	T 28
W29	12 25 26	8°15'41	25°51	11°43	4°57	2°14	26°44	17°33	22°52	26°19	10°56	2°32	4° 3	8°18	24°12	W29
T 30	12 29 23	9°15'00	7 <del>℥</del> L42	10°55	6°10	2°54	26°40	17°38	22°50	26°21	10°58	2°D32	3°59	8°25	24°12	T 30
F 31	12 33 20	10 <del>℥</del> 14'18	19 <del>℥</del> L37	10 <del>℥</del> 6	7 <del>℥</del> 22	3 <del>℥</del> 133	26 <del>♁</del> L36	17 <del>≈</del> 43	22 <del>♎</del> 47	26 <del>♁</del> 23	10 <del>℥</del> 59	2 <del>℥</del> L32	3 <del>℥</del> L56	8 <del>♁</del> 32	24 <del>♊</del> 13	F 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s41	8s 4	1s28	3s54	0s40	19s19	0n35	16n48	0n49	12n44	1n14	17s 6	0s43	3n 6
T 2	7 18	11 28	0 25	3 1	0 29	19 6	0 31	17 0	0 50	12 47	1 14	17 4	0 43	3 7
F 3	6 55	14 26	0n38	2 8	0 18	18 54	0 27	17 12	0 50	12 49	1 14	17 2	0 43	3 8
S 4	6 32	16 49	1 41	1 15	0 7	18 40	0 24	17 24	0 51	12 52	1 14	17 0	0 43	3 9
S 5	6 9	18 28	2 41	0 22	0n 5	18 26	0 20	17 36	0 51	12 55	1 14	16 59	0 43	3 10
M 6	5 46	19 17	3 34	0n31	0 18	18 12	0 17	17 48	0 52	12 57	1 14	16 57	0 43	3 11
T 7	5 23	19 7	4 19	1 22	0 30	17 57	0 13	17 59	0 52	13 0	1 14	16 55	0 43	3 12
W 8	4 59	17 55	4 51	2 12	0 44	17 41	0 10	18 11	0 53	13 2	1 14	16 53	0 43	3 13
T 9	4 36	15 39	5 7	3 0	0 57	17 25	0 6	18 22	0 53	13 5	1 14	16 51	0 43	3 14
F 10	4 13	12 23	5 6	3 47	1 11	17 8	0 3	18 33	0 54	13 7	1 14	16 50	0 44	3 15
S 11	3 49	8 16	4 45	4 32	1 24	16 51	0s 1	18 44	0 54	13 10	1 14	16 48	0 44	3 16
S 12	3 25	3 32	4 4	5 14	1 38	16 34	0 4	18 55	0 55	13 12	1 14	16 46	0 44	3 17
M13	3 2	1n28	3 5	5 53	1 51	16 16	0 8	19 6	0 55	13 14	1 14	16 44	0 44	3 18
T 14	2 38	6 24	1 53	6 29	2 4	15 58	0 11	19 16	0 56	13 17	1 14	16 42	0 44	3 19
W15	2 14	10 52	0 34	7 2	2 16	15 39	0 14	19 27	0 56	13 19	1 14	16 41	0 44	3 20
T 16	1 51	14 34	0s47	7 31	2 28	15 19	0 17	19 37	0 57	13 21	1 14	16 39	0 44	3 21
F 17	1 27	17 16	2 2	7 57	2 40	15 0	0 21	19 47	0 57	13 23	1 14	16 37	0 44	3 22
S 18	1 3	18 50	3 8	8 19	2 50	14 39	0 24	19 57	0 57	13 25	1 14	16 36	0 44	3 23
S 19	0 40	19 15	4 1	8 36	3 0	14 19	0 27	20 7	0 58	13 27	1 14	16 34	0 45	3 24
M20	0 16	18 36	4 40	8 49	3 8	13 58	0 30	20 17	0 58	13 29	1 14	16 32	0 45	3 25
T 21	0n 8	17 0	5 4	8 58	3 15	13 36	0 33	20 26	0 59	13 31	1 13	16 30	0 45	3 26
W22	0 32	14 38	5 13	9 3	3 20	13 15	0 36	20 36	0 59	13 33	1 13	16 29	0 45	3 27
T 23	0 55	11 38	5 6	9 3	3 25	12 52	0 39	20 45	0 59	13 35	1 13	16 27	0 45	3 28
F 24	1 19	8 12	4 47	8 58	3 27	12 30	0 41	20 54	1 0	13 36	1 13	16 26	0 45	3 29
S 25	1 43	4 27	4 14	8 49	3 28	12 7	0 44	21 3	1 0	13 38	1 13	16 24	0 45	3 30
S 26	2 6	0 34	3 31	8 37	3 27	11 44	0 47	21 11	1 1	13 40	1 13	16 22	0 45	3 31
M27	2 30	3s19	2 39	8 20	3 24	11 20	0 50	21 20	1 1	13 41	1 13	16 21	0 46	3 32
T 28	2 53	7 4	1 40	8 0	3 20	10 57	0 52	21 28	1 1	13 43	1 13	16 19	0 46	3 33
W29	3 17	10 33	0 37	7 36	3 13	10 32	0 55	21 37	1 2	13 44	1 13	16 18	0 46	3 34
T 30	3 40	13 37	0n28	7 10	3 5	10 8	0 57	21 45	1 2	13 46	1 13	16 16	0 46	3 35
F 31	4n 3	16s 8	1n33	6n41	2n56	9s43	0s59	21n52	1n 2	13n47	1n13	16s15	0s46	3n36

Julian Day Number = 2470231.5, Delta T = 7

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

APRIL 2051

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 37 16	11°13'33	1°41	9°R15	8°K35	4°II12	26°R32	17°49	22°R45	26°B24	11°K 1	2°M34	3°M53	8°B38	24°R13	S 1
S 2	12 41 13	12°12'46	13°57	8°Y24	9°48	4°50	26°Q28	17°54	22°M42	26°26	11° 2	2°36	3°50	8°45	24°13	S 2
M 3	12 45 9	13°11'58	26°28	7°35	11° 1	5°29	26°25	17°59	22°40	26°28	11° 3	2°37	3°47	8°52	24°13	M 3
T 4	12 49 6	14°11'08	9°S18	6°48	12°13	6° 8	26°21	18° 4	22°37	26°30	11° 5	2°R38	3°44	8°58	24°R13	T 4
W 5	12 53 2	15°10'16	22°31	6° 4	13°26	6°47	26°18	18° 9	22°35	26°31	11° 6	2°38	3°40	9° 5	24°13	W 5
T 6	12 56 59	16° 9'23	6°A 9	5°23	14°39	7°26	26°15	18°14	22°33	26°33	11° 8	2°37	3°37	9°12	24°13	T 6
F 7	13 0 55	17° 8'28	20°14	4°47	15°52	8° 5	26°12	18°19	22°30	26°35	11° 9	2°35	3°34	9°18	24°13	F 7
S 8	13 4 52	18° 7'30	4°K44	4°15	17° 5	8°44	26° 9	18°24	22°28	26°37	11°10	2°33	3°31	9°25	24°12	S 8
S 9	13 8 49	19° 6'31	19°36	3°48	18°17	9°23	26° 7	18°28	22°26	26°39	11°12	2°32	3°28	9°32	24°12	S 9
M10	13 12 45	20° 5'31	4°Y42	3°26	19°30	10° 2	26° 5	18°33	22°24	26°40	11°13	2°30	3°25	9°38	24°11	M10
T 11	13 16 42	21° 4'28	19°54	3° 9	20°43	10°41	26° 2	18°37	22°21	26°42	11°14	2°30	3°21	9°45	24°11	T 11
W12	13 20 38	22° 3'23	5°B 2	2°58	21°56	11°20	26° 0	18°42	22°19	26°44	11°16	2°D29	3°18	9°52	24°10	W12
T 13	13 24 35	23° 2'16	19°57	2°53	23° 9	11°58	25°59	18°46	22°17	26°46	11°17	2°30	3°15	9°58	24° 9	T 13
F 14	13 28 31	24° 1'08	4°II32	2°D52	24°22	12°37	25°57	18°51	22°15	26°48	11°18	2°30	3°12	10° 5	24° 8	F 14
S 15	13 32 28	24°59'56	18°42	2°57	25°35	13°16	25°56	18°55	22°13	26°50	11°20	2°31	3° 9	10°11	24° 7	S 15
S 16	13 36 24	25°58'43	2°B26	3° 7	26°48	13°55	25°54	18°59	22°11	26°52	11°21	2°32	3° 5	10°18	24° 6	S 16
M17	13 40 21	26°57'28	15°43	3°22	28° 0	14°34	25°53	19° 3	22° 9	26°54	11°22	2°32	3° 2	10°25	24° 5	M17
T 18	13 44 18	27°56'10	28°36	3°42	29°13	15°12	25°53	19° 7	22° 7	26°56	11°23	2°R32	2°59	10°31	24° 3	T 18
W19	13 48 14	28°54'50	11°Q 8	4° 6	0°Y26	15°51	25°52	19°11	22° 5	26°58	11°25	2°32	2°56	10°38	24° 2	W19
T 20	13 52 11	29°53'27	23°24	4°34	1°39	16°30	25°51	19°15	22° 3	27° 0	11°26	2°32	2°53	10°45	24° 1	T 20
F 21	13 56 7	0°B52'03	5°M27	5° 7	2°52	17° 9	25°51	19°19	22° 1	27° 2	11°27	2°32	2°50	10°51	23°59	F 21
S 22	14 0 4	1°50'36	17°22	5°44	4° 5	17°47	25°D51	19°22	21°59	27° 4	11°28	2°31	2°46	10°58	23°57	S 22
S 23	14 4 0	2°49'07	29°12	6°25	5°18	18°26	25°51	19°26	21°58	27° 6	11°29	2°D31	2°43	11° 5	23°56	S 23
M24	14 7 57	3°47'37	11°B 0	7° 9	6°31	19° 5	25°51	19°29	21°56	27° 8	11°30	2°31	2°40	11°11	23°54	M24
T 25	14 11 53	4°46'04	22°48	7°57	7°44	19°43	25°52	19°33	21°54	27°11	11°31	2°32	2°37	11°18	23°52	T 25
W26	14 15 50	5°44'29	4°M41	8°48	8°57	20°22	25°53	19°36	21°52	27°13	11°32	2°R32	2°34	11°25	23°50	W26
T 27	14 19 46	6°42'52	16°39	9°43	10°10	21° 0	25°53	19°39	21°51	27°15	11°33	2°32	2°31	11°31	23°48	T 27
F 28	14 23 43	7°41'14	28°45	10°40	11°23	21°39	25°54	19°43	21°49	27°17	11°34	2°31	2°27	11°38	23°46	F 28
S 29	14 27 40	8°39'34	11°A 1	11°41	12°36	22°18	25°56	19°46	21°48	27°19	11°36	2°30	2°24	11°45	23°43	S 29
S 30	14 31 36	9°B37'52	23°A28	12°Y44	13°Y49	22°II56	25°Q57	19°49	21°M46	27°B21	11°K37	2°M30	2°M21	11°B51	23°A41	S 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	decl	lat
S 1	4n26	17s58	2n34	6n11	2n45	9s18	1 s 2	22n 0	1n 3	13n48	1n13	16s13	0s46	3n37	0n48	17n44	1 s40	19s19	12s54	12s22	12s49	5s27	17s54	5n25			
S 2	4 50	19 0	3 29	5 40	2 32	8 53	1 4	22 8	1 3	13 49	1 12	16 12	0 46	3 38	0 48	17 44	1 40	19 19	12 54	12 22	12 47	5 29	17 53	5 25			
M 3	5 13	19 7	4 16	5 8	2 19	8 27	1 6	22 15	1 3	13 51	1 12	16 10	0 46	3 39	0 48	17 44	1 40	19 19	12 54	12 23	12 46	5 30	17 53	5 26			
T 4	5 36	18 16	4 51	4 36	2 4	8 2	1 8	22 22	1 4	13 52	1 12	16 9	0 47	3 40	0 48	17 45	1 40	19 18	12 54	12 23	12 45	5 32	17 52	5 27			
W 5	5 58	16 25	5 12	4 5	1 49	7 36	1 10	22 29	1 4	13 53	1 12	16 7	0 47	3 41	0 48	17 45	1 40	19 18	12 55	12 23	12 44	5 34	17 51	5 27			
T 6	6 21	13 37	5 16	3 34	1 34	7 9	1 12	22 36	1 4	13 54	1 12	16 6	0 47	3 42	0 48	17 46	1 40	19 18	12 55	12 22	12 43	5 36	17 51	5 28			
F 7	6 44	9 57	5 2	3 5	1 17	6 43	1 14	22 43	1 4	13 54	1 12	16 5	0 47	3 43	0 48	17 46	1 40	19 17	12 55	12 22	12 42	5 38	17 50	5 29			
S 8	7 6	5 36	4 28	2 37	1 1	6 16	1 16	22 49	1 5	13 55	1 12	16 3	0 47	3 43	0 48	17 47	1 40	19 17	12 55	12 21	12 41	5 40	17 49	5 29			
S 9	7 29	0 48	3 36	2 12	0 45	5 50	1 18	22 55	1 5	13 56	1 12	16 2	0 47	3 44	0 48	17 47	1 39	19 17	12 55	12 21	12 40	5 42	17 49	5 30			
M10	7 51	4n 8	2 28	1 48	0 29	5 23	1 20	23 1	1 5	13 57	1 12	16 1	0 47	3 45	0 48	17 48	1 39	19 16	12 56	12 20	12 39	5 44	17 48	5 31			
T 11	8 13	8 51	1 9	1 27	0 13	4 55	1 21	23 7	1 6	13 57	1 11	16 0	0 48	3 46	0 48	17 48	1 39	19 16	12 56	12 20	12 38	5 46	17 47	5 31			
W12	8 35	12 58	0s14	1 9	0s 3	4 28	1 23	23 13	1 6	13 58	1 11	15 58	0 48	3 47	0 48	17 49	1 39	19 16	12 56	12 20	12 37	5 47	17 47	5 32			
T 13	8 57	16 11	1 36	0 53	0 18	4 1	1 24	23 19	1 6	13 58	1 11	15 57	0 48	3 48	0 48	17 49	1 39	19 15	12 56	12 20	12 36	5 49	17 46	5 33			
F 14	9 19	18 16	2 49	0 39	0 32	3 33	1 26	23 24	1 6	13 59	1 11	15 56	0 48	3 49	0 48	17 49	1 39	19 15	12 57	12 20	12 34	5 51	17 45	5 33			
S 15	9 40	19 8	3 50	0 28	0 46	3 5	1 27	23 29	1 7	13 59	1 11	15 55	0 48	3 49	0 48	17 50	1 39	19 15	12 57	12 21	12 33	5 53	17 44	5 34			
S 16	10 2	18 49	4 35	0 20	0 59	2 38	1 28	23 34	1 7	13 59	1 11	15 53	0 48	3 50	0 48	17 50	1 39	19 15	12 57	12 21	12 32	5 55	17 44	5 34			
M17	10 23	17 28	5 4	0 14	1 12	2 10	1 30	23 39	1 7	14 0	1 11	15 52	0 48	3 51	0 48	17 51	1 39	19 14	12 57	12 21	12 31	5 57	17 43	5 35			
T 18	10 44	15 15	5 17	0 11	1 24	1 42	1 31	23 43	1 7	14 0	1 11	15 51	0 49	3 52	0 48	17 51	1 39	19 14	12 58	12 21	12 30	5 59	17 42	5 36			
W19	11 5	12 23	5 14	0 11	1 35	1 14	1 32	23 48	1 7	14 0	1 10	15 50	0 49	3 52	0 48	17 52	1 39	19 14	12 58	12 21	12 29	6 0	17 42	5 36			
T 20	11 26	9 2	4 57	0 12	1 45	0 46	1 33	23 52	1 8	14 0	1 10	15 49	0 49	3 53	0 48	17 52	1 39	19 14	12 58	12 21	12 28	6 2	17 41	5 37			
F 21	11 46	5 22	4 27	0 16	1 55	0 17	1 34	23 56	1 8	14 0	1 10	15 48	0 49	3 54	0 48	17 53	1 39	19 13	12 58	12 21	12 27	6 4	17 40	5 38			
S 22	12 7	1 31	3 46	0 23	2 4	0n11	1 34	24 0	1 8	14 0	1 10	15 47	0 49	3 54	0 48	17 53	1 39	19 13	12 59	12 21	12 26	6 6	17 40	5 38			
S 23	12 27	2s21	2 55	0 31	2 12	0 39	1 35	24 4	1 8	14 0	1 10	15 46	0 49	3 55	0 48	17 54	1 39	19 13	12 59	12 21	12 25	6 8	17 39	5 39			
M24	12 47	6 8	1 57	0 42	2 20	1 7	1 36	24 7	1 9	13 59	1 10	15 45	0 49	3 56	0 48	17 54	1 39	19 13	12 59	12 21	12 24	6 10	17 38	5 39			
T 25	13 6	9 42	0 54	0 54	2 27	1 36	1 36	24 10	1 9	13 59	1 10	15 44	0 50	3 56	0 48	17 55	1 39	19 13	13 0	12 21	12 23	6 12	17 38	5 40			
W26	13 26	12 53	0n12	1 9	2 33	2 4	1 37	24 14	1 9	13 59	1 9	15 43	0 50	3 57	0 48	17 55	1 39	19 13	13 0	12 21	12 21	6 13	17 37	5 41			
T 27	13 45	15 34	1 18	1 25	2 38	2 32	1 37	24 16	1 9	13 58	1 9	15 42	0 50	3 58	0 48	17 56	1 39	19 12	13 0	12 21	12 20	6 15	17 36	5 41			
F 28	14 4	17 35	2 21	1 43	2 43	3 0	1 38	24 19	1 9	13 58	1 9	15 41	0 50	3 58	0 48	17 56	1 39	19 12	13 0	12 21	12 19	6 17	17 36	5 42			
S 29	14 23	18 49	3 18	2 3	2 47	3 28	1 38	24 22	1 9	13 57	1 9	15 41	0 50	3 59	0 48	17 57	1 39	19 12	13 1	12 20	12 18	6 19	17 35	5 42			
S 30	14n42	19s10	4n 7	2n24	2s51	3n57	1s38	24n24	1n10	13n57	1n 9	15s40	0s50	3n59	0n47	17n57	1s39	19s12	13s 1	12s20	12s17	6s21	17s34	5n43			

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

MAY 2051

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 35 33	10836'09	68 9	135050	1550 2	231135	250259	190052	210R45	27823	11837	20R29	20118	11058	230R39	M 1
T 2	14 39 29	11034'24	19 5	14058	1615	2413	26 0	19055	21043	2726	1138	20128	2015	12 5	230R36	T 2
W 3	14 43 26	12032'38	20020	16 9	1728	2452	26 2	19057	21042	2728	1139	2027	2011	1211	23034	W 3
T 4	14 47 22	13030'50	15054	1723	1841	2530	26 4	20 0	21041	2730	1140	20D27	20 8	1218	23031	T 4
F 5	14 51 19	14029'01	29048	1839	1954	26 9	26 7	20 2	21039	2732	1141	2027	20 5	1225	23028	F 5
S 6	14 55 15	15027'10	1403 3	19057	21 7	2647	26 9	20 5	21038	2734	1142	2028	20 2	1231	23026	S 6
S 7	14 59 12	16025'18	28035	2118	2220	2726	2612	20 7	21037	2737	1143	2029	1059	1238	23023	S 7
M 8	15 3 9	17023'24	13022	22041	2333	28 4	2614	2010	21036	2739	1144	2030	1056	1245	23020	M 8
T 9	15 7 5	18021'29	28018	24 6	2446	2843	2617	2012	21035	2741	1145	20R31	1052	1251	23017	T 9
W10	15 11 2	19019'33	13015	25033	25059	2921	2621	2014	21034	2743	1145	2030	1049	1258	23014	W10
T 11	15 14 58	20017'35	28 5	27 2	2712	29059	2624	2016	21033	2745	1146	2029	1046	13 4	23011	T 11
F 12	15 18 55	21015'35	12040	28033	2826	00038	2627	2018	21032	2748	1147	2028	1043	1311	23 8	F 12
S 13	15 22 51	22013'34	26054	008 7	29039	1016	2631	2020	21031	2750	1148	2025	1040	1318	23 4	S 13
S 14	15 26 48	23011'31	10044	1042	0052	1055	2635	2021	21030	2752	1148	2022	1036	1324	23 1	S 14
M15	15 30 44	240 9'26	24 7	3020	2 5	2033	2639	2023	21029	2754	1149	2020	1033	1331	2258	M15
T 16	15 34 41	250 7'19	706 6	5 0	318	312	2643	2024	21029	2757	1150	2018	1030	1338	2254	T 16
W17	15 38 38	260 5'11	19041	6042	431	350	2647	2026	21028	2759	1150	2016	1027	1344	2251	W17
T 18	15 42 34	270 3'01	10058	8025	544	428	2652	2027	21027	28 1	1151	20D16	1024	1351	2248	T 18
F 19	15 46 31	280 0'49	14 1	1011	6057	5 7	2656	2028	21027	28 3	1151	2017	1021	1358	2244	F 19
S 20	15 50 27	28058'35	25054	11059	810	5045	27 1	2029	21026	28 6	1152	2019	1017	14 4	2240	S 20
S 21	15 54 24	29056'20	7042	13049	923	623	27 6	2031	21026	28 8	1153	2021	1014	1411	2237	S 21
M22	15 58 20	00054'03	19030	15041	1037	7 1	2711	2031	21025	2810	1153	2022	1011	1418	2233	M22
T 23	16 2 17	1051'45	10022	17035	11050	740	2717	2032	21025	2812	1154	20R23	10 8	1424	2229	T 23
W24	16 6 13	2049'25	13021	19031	13 3	818	2722	2033	21025	2815	1154	2022	10 5	1431	2226	W24
T 25	16 10 10	3047'04	25029	21030	1416	856	2728	2034	21024	2817	1154	2020	10 2	1438	2222	T 25
F 26	16 14 7	4044'42	7048	23030	1529	934	2733	2034	21024	2819	1155	2017	0058	1444	2218	F 26
S 27	16 18 3	5042'18	20020	25032	16042	1013	2739	2035	21024	2821	1155	2012	0055	1451	2214	S 27
S 28	16 22 0	6039'54	303 6	27035	17055	1051	2745	2035	21024	2824	1156	20 6	0052	1458	2210	S 28
M29	16 25 56	7037'28	16 5	29041	19 9	1129	2751	2035	210D24	2826	1156	20 1	0049	15 4	22 6	M29
T 30	16 29 53	8035'01	29017	10048	20022	12 7	2758	2035	21024	2828	1156	1055	0046	1511	22 2	T 30
W31	16 33 49	9032'34	12043	30056	21035	12045	2804 4	20R35	21024	2830	1157	1051	0042	1518	21058	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	15n 0	18s33	4n45	2n47	2s53	4n25	1s38	24n26	1n10	13n56	1n 9	15s39	0s50	4n 0	0n47	17n58
T 2	15 18	16 59	5 9	3 12	2 56	4 53	1 38	24 28	1 10	13 55	1 9	15 38	0 51	4 0	0 47	17 58
W 3	15 36	14 29	5 17	3 38	2 57	5 20	1 38	24 30	1 10	13 55	1 8	15 38	0 51	4 1	0 47	17 59
T 4	15 53	11 9	5 9	4 5	2 58	5 48	1 38	24 31	1 10	13 54	1 8	15 37	0 51	4 1	0 47	17 59
F 5	16 11	7 8	4 42	4 33	2 58	6 16	1 38	24 33	1 10	13 53	1 8	15 36	0 51	4 2	0 47	18 0
S 6	16 28	2 37	3 58	5 3	2 58	6 44	1 38	24 34	1 10	13 52	1 8	15 36	0 51	4 2	0 47	18 0
S 7	16 45	2n 9	2 57	5 34	2 57	7 11	1 37	24 35	1 11	13 51	1 8	15 35	0 51	4 3	0 47	18 1
M 8	17 1	6 53	1 44	6 6	2 55	7 38	1 37	24 36	1 11	13 50	1 8	15 34	0 52	4 3	0 47	18 1
T 9	17 17	11 14	0 23	6 40	2 53	8 5	1 37	24 36	1 11	13 49	1 8	15 34	0 52	4 4	0 47	18 2
W10	17 33	14 52	0s59	7 14	2 50	8 32	1 36	24 37	1 11	13 47	1 7	15 33	0 52	4 4	0 47	18 2
T 11	17 49	17 30	2 17	7 49	2 47	8 59	1 36	24 37	1 11	13 46	1 7	15 33	0 52	4 4	0 47	18 3
F 12	18 4	18 56	3 24	8 25	2 43	9 26	1 35	24 37	1 11	13 45	1 7	15 32	0 52	4 5	0 47	18 4
S 13	18 19	19 7	4 17	9 2	2 39	9 52	1 34	24 37	1 11	13 43	1 7	15 32	0 52	4 5	0 47	18 4
S 14	18 34	18 7	4 53	9 39	2 34	10 19	1 33	24 36	1 11	13 42	1 7	15 32	0 53	4 5	0 47	18 5
M15	18 48	16 9	5 12	10 18	2 28	10 45	1 33	24 36	1 12	13 40	1 7	15 31	0 53	4 6	0 47	18 5
T 16	19 2	13 25	5 14	10 57	2 23	11 10	1 32	24 35	1 12	13 39	1 7	15 31	0 53	4 6	0 47	18 6
W17	19 16	10 8	5 1	11 36	2 16	11 36	1 31	24 34	1 12	13 37	1 7	15 31	0 53	4 6	0 47	18 6
T 18	19 30	6 30	4 34	12 16	2 9	12 1	1 30	24 33	1 12	13 36	1 6	15 30	0 53	4 6	0 47	18 7
F 19	19 43	2 40	3 56	12 56	2 2	12 26	1 29	24 32	1 12	13 34	1 6	15 30	0 53	4 6	0 47	18 7
S 20	19 55	1s14	3 7	13 37	1 54	12 51	1 27	24 30	1 12	13 32	1 6	15 30	0 54	4 7	0 47	18 8
S 21	20 8	5 4	2 12	14 18	1 46	13 15	1 26	24 29	1 12	13 30	1 6	15 30	0 54	4 7	0 47	18 8
M22	20 20	8 43	1 10	14 59	1 37	13 39	1 25	24 27	1 12	13 28	1 6	15 30	0 54	4 7	0 47	18 9
T 23	20 32	12 2	0 6	15 40	1 28	14 3	1 24	24 25	1 12	13 26	1 6	15 30	0 54	4 7	0 47	18 9
W24	20 43	14 53	1n 0	16 21	1 18	14 27	1 22	24 22	1 12	13 24	1 6	15 30	0 54	4 7	0 47	18 10
T 25	20 54	17 8	2 3	17 2	1 9	14 50	1 21	24 20	1 12	13 22	1 5	15 29	0 54	4 7	0 46	18 10
F 26	21 5	18 37	3 2	17 42	0 59	15 12	1 19	24 17	1 12	13 20	1 5	15 29	0 55	4 7	0 46	18 11
S 27	21 15	19 13	3 53	18 21	0 48	15 35	1 18	24 14	1 12	13 18	1 5	15 29	0 55	4 7	0 46	18 11
S 28	21 25	18 51	4 33	19 0	0 38	15 57	1 16	24 11	1 12	13 16	1 5	15 30	0 55	4 7	0 46	18 11
M29	21 34	17 30	4 59	19 38	0 27	16 18	1 15	24 8	1 13	13 14	1 5	15 30	0 55	4 7	0 46	18 12
T 30	21 44	15 13	5 11	20 15	0 17	16 40	1 13	24 5	1 13	13 12	1 5	15 30	0 55	4 7	0 46	18 12
W31	21n52	12s 6	5n 6	20n50	0s 6	17n 0	1s11	24n 1	1n13	13n 9	1n 5	15s30	0s55	4n 7	0n46	18n13

Julian Day Number = 2470292.5, Delta T = 74.97 sec

Ecliptic obliquity = 23°25'50, Nutation = 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°27'27, Lahiri = 24°34'27

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

JUNE 2051

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 46	10 <sup>II</sup> 30'05	26 <sup>♂</sup> 22	6 <sup>II</sup> 6	22 <sup>♂</sup> 48	13 <sup>♂</sup> 24	28 <sup>♂</sup> 11	20 <sup>♂</sup> R35	21 <sup>♂</sup> 24	28 <sup>♂</sup> 33	11 <sup>♂</sup> 57	1 <sup>♂</sup> R49	0 <sup>♂</sup> M39	15 <sup>♂</sup> 24	21 <sup>♂</sup> R54	T 1
F 2	16 41 42	11 <sup>♂</sup> 27'36	10 <sup>♂</sup> 14	8 <sup>♂</sup> 16	24 <sup>♂</sup> 1	14 <sup>♂</sup> 2	28 <sup>♂</sup> 17	20 <sup>♂</sup> 35	21 <sup>♂</sup> 24	28 <sup>♂</sup> 35	11 <sup>♂</sup> 57	1 <sup>♂</sup> D48	0 <sup>♂</sup> 36	15 <sup>♂</sup> 31	21 <sup>♂</sup> 50	F 2
S 3	16 45 39	12 <sup>♂</sup> 25'06	24 <sup>♂</sup> 19	10 <sup>♂</sup> 27	25 <sup>♂</sup> 14	14 <sup>♂</sup> 40	28 <sup>♂</sup> 24	20 <sup>♂</sup> 35	21 <sup>♂</sup> 24	28 <sup>♂</sup> 37	11 <sup>♂</sup> 57	1 <sup>♂</sup> M48	0 <sup>♂</sup> 33	15 <sup>♂</sup> 37	21 <sup>♂</sup> 46	S 3
S 4	16 49 36	13 <sup>♂</sup> 22'35	8 <sup>♂</sup> 35	12 <sup>♂</sup> 39	26 <sup>♂</sup> 28	15 <sup>♂</sup> 18	28 <sup>♂</sup> 31	20 <sup>♂</sup> 35	21 <sup>♂</sup> 25	28 <sup>♂</sup> 39	11 <sup>♂</sup> 58	1 <sup>♂</sup> 49	0 <sup>♂</sup> 30	15 <sup>♂</sup> 44	21 <sup>♂</sup> 42	S 4
M 5	16 53 32	14 <sup>♂</sup> 20'04	23 <sup>♂</sup> 0	14 <sup>♂</sup> 51	27 <sup>♂</sup> 41	15 <sup>♂</sup> 56	28 <sup>♂</sup> 38	20 <sup>♂</sup> 34	21 <sup>♂</sup> 25	28 <sup>♂</sup> 41	11 <sup>♂</sup> 58	1 <sup>♂</sup> 51	0 <sup>♂</sup> 27	15 <sup>♂</sup> 51	21 <sup>♂</sup> 38	M 5
T 6	16 57 29	15 <sup>♂</sup> 17'31	7 <sup>♂</sup> 32	17 <sup>♂</sup> 4	28 <sup>♂</sup> 54	16 <sup>♂</sup> 34	28 <sup>♂</sup> 45	20 <sup>♂</sup> 34	21 <sup>♂</sup> 25	28 <sup>♂</sup> 44	11 <sup>♂</sup> 58	1 <sup>♂</sup> R51	0 <sup>♂</sup> 23	15 <sup>♂</sup> 57	21 <sup>♂</sup> 34	T 6
W 7	17 1 25	16 <sup>♂</sup> 14'59	22 <sup>♂</sup> 7	19 <sup>♂</sup> 15	0 <sup>♂</sup> II 7	17 <sup>♂</sup> 12	28 <sup>♂</sup> 53	20 <sup>♂</sup> 33	21 <sup>♂</sup> 26	28 <sup>♂</sup> 46	11 <sup>♂</sup> 58	1 <sup>♂</sup> 49	0 <sup>♂</sup> 20	16 <sup>♂</sup> 4	21 <sup>♂</sup> 30	W 7
T 8	17 5 22	17 <sup>♂</sup> 12'25	6 <sup>♂</sup> II37	21 <sup>♂</sup> 27	1 <sup>♂</sup> 21	17 <sup>♂</sup> 50	29 <sup>♂</sup> 0	20 <sup>♂</sup> 32	21 <sup>♂</sup> 26	28 <sup>♂</sup> 48	11 <sup>♂</sup> 58	1 <sup>♂</sup> 46	0 <sup>♂</sup> 17	16 <sup>♂</sup> 11	21 <sup>♂</sup> 26	T 8
F 9	17 9 18	18 <sup>♂</sup> 9'51	20 <sup>♂</sup> 58	23 <sup>♂</sup> 37	2 <sup>♂</sup> 34	18 <sup>♂</sup> 29	29 <sup>♂</sup> 8	20 <sup>♂</sup> 32	21 <sup>♂</sup> 27	28 <sup>♂</sup> 50	11 <sup>♂</sup> 58	1 <sup>♂</sup> 40	0 <sup>♂</sup> 14	16 <sup>♂</sup> 17	21 <sup>♂</sup> 21	F 9
S 10	17 13 15	19 <sup>♂</sup> 7'16	5 <sup>♂</sup> 23	25 <sup>♂</sup> 46	3 <sup>♂</sup> 47	19 <sup>♂</sup> 7	29 <sup>♂</sup> 16	20 <sup>♂</sup> 31	21 <sup>♂</sup> 28	28 <sup>♂</sup> 52	11 <sup>♂</sup> 58	1 <sup>♂</sup> 33	0 <sup>♂</sup> 11	16 <sup>♂</sup> 24	21 <sup>♂</sup> 17	S 10
S 11	17 17 11	20 <sup>♂</sup> 4'40	18 <sup>♂</sup> 49	27 <sup>♂</sup> 54	5 <sup>♂</sup> 0	19 <sup>♂</sup> 45	29 <sup>♂</sup> 23	20 <sup>♂</sup> 30	21 <sup>♂</sup> 28	28 <sup>♂</sup> 54	11 <sup>♂</sup> 58	1 <sup>♂</sup> 25	0 <sup>♂</sup> 8	16 <sup>♂</sup> 31	21 <sup>♂</sup> 13	S 11
M 12	17 21 8	21 <sup>♂</sup> 2'03	2 <sup>♂</sup> II11	0 <sup>♂</sup> 23	6 <sup>♂</sup> 14	20 <sup>♂</sup> 23	29 <sup>♂</sup> 31	20 <sup>♂</sup> 28	21 <sup>♂</sup> 29	28 <sup>♂</sup> 56	11 <sup>♂</sup> R58	1 <sup>♂</sup> 17	0 <sup>♂</sup> 4	16 <sup>♂</sup> 37	21 <sup>♂</sup> 9	M 12
T 13	17 25 5	21 <sup>♂</sup> 59'24	15 <sup>♂</sup> 10	2 <sup>♂</sup> 6	7 <sup>♂</sup> 27	21 <sup>♂</sup> 1	29 <sup>♂</sup> 39	20 <sup>♂</sup> 27	21 <sup>♂</sup> 30	28 <sup>♂</sup> 59	11 <sup>♂</sup> 58	1 <sup>♂</sup> 11	0 <sup>♂</sup> 1	16 <sup>♂</sup> 44	21 <sup>♂</sup> 5	T 13
W 14	17 29 1	22 <sup>♂</sup> 56'45	27 <sup>♂</sup> 47	4 <sup>♂</sup> 9	8 <sup>♂</sup> 40	21 <sup>♂</sup> 39	29 <sup>♂</sup> 48	20 <sup>♂</sup> 26	21 <sup>♂</sup> 30	29 <sup>♂</sup> 1	11 <sup>♂</sup> 58	1 <sup>♂</sup> 6	29 <sup>♂</sup> 58	16 <sup>♂</sup> 51	21 <sup>♂</sup> 1	W 14
T 15	17 32 58	23 <sup>♂</sup> 54'05	10 <sup>♂</sup> II 5	6 <sup>♂</sup> 10	9 <sup>♂</sup> 54	22 <sup>♂</sup> 17	29 <sup>♂</sup> 56	20 <sup>♂</sup> 25	21 <sup>♂</sup> 31	29 <sup>♂</sup> 3	11 <sup>♂</sup> 58	1 <sup>♂</sup> 3	29 <sup>♂</sup> 55	16 <sup>♂</sup> 57	20 <sup>♂</sup> 57	T 15
F 16	17 36 54	24 <sup>♂</sup> 51'24	22 <sup>♂</sup> 9	8 <sup>♂</sup> 9	11 <sup>♂</sup> 7	22 <sup>♂</sup> 55	0 <sup>♂</sup> II 4	20 <sup>♂</sup> 23	21 <sup>♂</sup> 32	29 <sup>♂</sup> 5	11 <sup>♂</sup> 58	1 <sup>♂</sup> D 1	29 <sup>♂</sup> 52	17 <sup>♂</sup> 4	20 <sup>♂</sup> 52	F 16
S 17	17 40 51	25 <sup>♂</sup> 48'43	4 <sup>♂</sup> 2	10 <sup>♂</sup> 6	12 <sup>♂</sup> 20	23 <sup>♂</sup> 33	0 <sup>♂</sup> 13	20 <sup>♂</sup> 22	21 <sup>♂</sup> 33	29 <sup>♂</sup> 7	11 <sup>♂</sup> 58	1 <sup>♂</sup> 2	29 <sup>♂</sup> 48	17 <sup>♂</sup> 11	20 <sup>♂</sup> 48	S 17
S 18	17 44 47	26 <sup>♂</sup> 46'00	15 <sup>♂</sup> 51	12 <sup>♂</sup> 1	13 <sup>♂</sup> 34	24 <sup>♂</sup> 11	0 <sup>♂</sup> 22	20 <sup>♂</sup> 20	21 <sup>♂</sup> 34	29 <sup>♂</sup> 9	11 <sup>♂</sup> 58	1 <sup>♂</sup> 3	29 <sup>♂</sup> 45	17 <sup>♂</sup> 17	20 <sup>♂</sup> 44	S 18
M 19	17 48 44	27 <sup>♂</sup> 43'16	27 <sup>♂</sup> 40	13 <sup>♂</sup> 53	14 <sup>♂</sup> 47	24 <sup>♂</sup> 49	0 <sup>♂</sup> 30	20 <sup>♂</sup> 18	21 <sup>♂</sup> 35	29 <sup>♂</sup> 11	11 <sup>♂</sup> 58	1 <sup>♂</sup> R 3	29 <sup>♂</sup> 42	17 <sup>♂</sup> 24	20 <sup>♂</sup> 40	M 19
T 20	17 52 40	28 <sup>♂</sup> 40'32	9 <sup>♂</sup> II35	15 <sup>♂</sup> 44	16 <sup>♂</sup> 0	25 <sup>♂</sup> 27	0 <sup>♂</sup> 39	20 <sup>♂</sup> 16	21 <sup>♂</sup> 36	29 <sup>♂</sup> 13	11 <sup>♂</sup> 58	1 <sup>♂</sup> 3	29 <sup>♂</sup> 39	17 <sup>♂</sup> 30	20 <sup>♂</sup> 36	T 20
W 21	17 56 37	29 <sup>♂</sup> 37'47	21 <sup>♂</sup> 40	17 <sup>♂</sup> 32	17 <sup>♂</sup> 14	26 <sup>♂</sup> 5	0 <sup>♂</sup> 48	20 <sup>♂</sup> 14	21 <sup>♂</sup> 38	29 <sup>♂</sup> 15	11 <sup>♂</sup> 57	1 <sup>♂</sup> 1	29 <sup>♂</sup> 36	17 <sup>♂</sup> 37	20 <sup>♂</sup> 32	W 21
T 22	18 0 34	0 <sup>♂</sup> 35'02	3 <sup>♂</sup> ♂58	19 <sup>♂</sup> 17	18 <sup>♂</sup> 27	26 <sup>♂</sup> 43	0 <sup>♂</sup> 57	20 <sup>♂</sup> 12	21 <sup>♂</sup> 39	29 <sup>♂</sup> 17	11 <sup>♂</sup> 57	0 <sup>♂</sup> 57	29 <sup>♂</sup> 33	17 <sup>♂</sup> 44	20 <sup>♂</sup> 28	T 22
F 23	18 4 30	1 <sup>♂</sup> 32'16	16 <sup>♂</sup> 31	21 <sup>♂</sup> 1	19 <sup>♂</sup> 40	27 <sup>♂</sup> 21	1 <sup>♂</sup> 7	20 <sup>♂</sup> 10	21 <sup>♂</sup> 40	29 <sup>♂</sup> 19	11 <sup>♂</sup> 57	0 <sup>♂</sup> 50	29 <sup>♂</sup> 29	17 <sup>♂</sup> 50	20 <sup>♂</sup> 24	F 23
S 24	18 8 27	2 <sup>♂</sup> 29'29	29 <sup>♂</sup> 21	22 <sup>♂</sup> 42	20 <sup>♂</sup> 54	27 <sup>♂</sup> 59	1 <sup>♂</sup> 16	20 <sup>♂</sup> 8	21 <sup>♂</sup> 41	29 <sup>♂</sup> 21	11 <sup>♂</sup> 57	0 <sup>♂</sup> 41	29 <sup>♂</sup> 26	17 <sup>♂</sup> 57	20 <sup>♂</sup> 20	S 24
S 25	18 12 23	3 <sup>♂</sup> 26'42	12 <sup>♂</sup> 38	24 <sup>♂</sup> 20	22 <sup>♂</sup> 7	28 <sup>♂</sup> 37	1 <sup>♂</sup> 25	20 <sup>♂</sup> 6	21 <sup>♂</sup> 43	29 <sup>♂</sup> 23	11 <sup>♂</sup> 56	0 <sup>♂</sup> 31	29 <sup>♂</sup> 23	18 <sup>♂</sup> 4	20 <sup>♂</sup> 16	S 25
M 26	18 16 20	4 <sup>♂</sup> 23'55	25 <sup>♂</sup> 51	25 <sup>♂</sup> 56	23 <sup>♂</sup> 21	29 <sup>♂</sup> 15	1 <sup>♂</sup> 35	20 <sup>♂</sup> 3	21 <sup>♂</sup> 44	29 <sup>♂</sup> 25	11 <sup>♂</sup> 56	0 <sup>♂</sup> 20	29 <sup>♂</sup> 20	18 <sup>♂</sup> 10	20 <sup>♂</sup> 12	M 26
T 27	18 20 16	5 <sup>♂</sup> 21'08	9 <sup>♂</sup> 26	27 <sup>♂</sup> 30	24 <sup>♂</sup> 34	29 <sup>♂</sup> 53	1 <sup>♂</sup> 44	20 <sup>♂</sup> 1	21 <sup>♂</sup> 46	29 <sup>♂</sup> 27	11 <sup>♂</sup> 56	0 <sup>♂</sup> 11	29 <sup>♂</sup> 17	18 <sup>♂</sup> 17	20 <sup>♂</sup> 8	T 27
W 28	18 24 13	6 <sup>♂</sup> 18'20	23 <sup>♂</sup> 12	29 <sup>♂</sup> 2	25 <sup>♂</sup> 48	0 <sup>♂</sup> II31	1 <sup>♂</sup> 54	19 <sup>♂</sup> 58	21 <sup>♂</sup> 47	29 <sup>♂</sup> 29	11 <sup>♂</sup> 55	0 <sup>♂</sup> 3	29 <sup>♂</sup> 14	18 <sup>♂</sup> 24	20 <sup>♂</sup> 4	W 28
T 29	18 28 10	7 <sup>♂</sup> 15'32	7 <sup>♂</sup> ♂ 6	0 <sup>♂</sup> II31	27 <sup>♂</sup> 1	1 <sup>♂</sup> 9	2 <sup>♂</sup> 4	19 <sup>♂</sup> 56	21 <sup>♂</sup> 49	29 <sup>♂</sup> 31	11 <sup>♂</sup> 55	29 <sup>♂</sup> 57	29 <sup>♂</sup> 10	18 <sup>♂</sup> 30	20 <sup>♂</sup> 0	T 29
F 30	18 32 6	8 <sup>♂</sup> 12'44	21 <sup>♂</sup> ♂ 7	1 <sup>♂</sup> II57	28 <sup>♂</sup> II14	1 <sup>♂</sup> II47	2 <sup>♂</sup> II14	19 <sup>♂</sup> 53	21 <sup>♂</sup> 50	29 <sup>♂</sup> 32	11 <sup>♂</sup> 54	29 <sup>♂</sup> 54	29 <sup>♂</sup> 7	18 <sup>♂</sup> 37	19 <sup>♂</sup> 57	F 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	decl	lat	decl	lat
T 1	22n 1	8s17	4n43	21n24	0n 5	17n21	1s 9	23n58	1n13	13n 7	1n 5	15s30	0s56	4n 7	0n46	18n13	1s39	19s14	13s12	12s 6	11s42	7s19	17s15	5n57					
F 2	22 9	3 57	4 4	21 56	0 15	17 41	1 7	23 54	1 13	13 4	1 4	15 30	0 56	4 7	0 46	18 14	1 39	19 14	13 12	12 6	11 41	7 21	17 14	5 57					
S 3	22 17	0n39	3 10	22 26	0 26	18 0	1 6	23 50	1 13	13 2	1 4	15 30	0 56	4 7	0 46	18 14	1 39	19 14	13 12	12 6	11 40	7 22	17 14	5 57					
S 4	22 24	5 17	2 3	22 54	0 36	18 19	1 4	23 45	1 13	12 59	1 4	15 31	0 56	4 7	0 46	18 15	1 39	19 15	13 13	12 6	11 39	7 24	17 13	5 58					
M 5	22 31	9 41	0 48	23 20	0 46	18 38	1 2	23 41	1 13	12 57	1 4	15 31	0 56	4 6	0 46	18 15	1 39	19 15	13 13	12 7	11 37	7 26	17 13	5 58					
T 6	22 37	13 32	0s31	23 43	0 55	18 56	1 0	23 36	1 13	12 54	1 4	15 31	0 56	4 6	0 46	18 16	1 39	19 15	13 12	7 11 36	7 28	17 12	5 58						
W 7	22 43	16 33	1 48	24 3	1 4	19 14	0 58	23 32	1 13	12 51	1 4	15 32	0 57	4 6	0 46	18 16	1 39	19 16	13 14	12 6	11 35	7 30	17 12	5 58					
T 8	22 49	18 30	2 57	24 21	1 12	19 31	0 56	23 27	1 13	12 49	1 4	15 32	0 57	4 6	0 46	18 17	1 39	19 16	13 14	12 5	11 34	7 31	17 11	5 59					
F 9	22 54	19 14	3 54	24 36	1 20	19 47	0 54	23 22	1 13	12 46	1 4	15 33	0 57	4 6	0 46	18 17	1 39	19 16	13 15	12 3	11 33	7 33	17 11	5 59					
S 10	22 59	18 44	4 36	24 49	1 27	20 3	0 51	23 16	1 13	12 43	1 3	15 33	0 57	4 5	0 46	18 18	1 39	19 16	13 15	12 0	11 32	7 35	17 10	5 59					
S 11	23 4	17 9	5 0	24 58	1 34	20 19	0 49	23 11	1 13	12 40	1 3	15 33	0 57	4 5	0 46	18 18	1 39	19 17	13 15	11 58	11 31	7 37	17 10	5 59					
M 12	23 8	14 40	5 8	25 5	1 39	20 34	0 47	23 5	1 13	12 37	1 3	15 34	0 57	4 5	0 46	18 18	1 39	19 17	13 16	11 55	11 30	7 38	17 10	5 59					
T 13	23 11	11 31	4 59	25 9	1 45	20 48	0 45	22 59	1 13	12 34	1 3	15 35	0 58	4 4	0 46	18 19	1 39	19 17	13 16	11 53	11 28	7 40	17 9	5 59					
W 14	23 15	7 55	4 35	25 11	1 49	21 2	0 43	22 53	1 13	12 31	1 3	15 35	0 58	4 4	0 46	18 19	1 39	19 18	13 16	11 51	11 27	7 42	17 9	6 0					
T 15	23 17	4 5	4 0	25 10	1 53	21 16	0 40	22 47	1 13	12 28	1 3	15 36	0 58	4 4	0 46	18 20	1 39	19 18	13 17	11 50	11 26	7 44	17 8	6 0					
F 16	23 20	0 9	3 14	25 6	1 55	21 28	0 38	22 41	1 13	12 25	1 3	15 36	0 58	4 3	0 46	18 20	1 39	19 18	13 17	11 50	11 25	7 45	17 8	6 0					
S 17	23 22	3s45	2 20	25 0	1 58	21 40	0 36	22 34	1 13	12 22	1 3	15 37	0 58	4 3	0 45	18 21	1 39	19 19	13 17	11 50	11 24	7 47	17 8	6 0					
S 18	23 23	7 29	1 21	24 52	1 59	21 52	0 33	22 28	1 13	12 19	1 3	15 38	0 58	4 2	0 45	18 21	1 39	19 19	13 18	11 50	11 23	7 49	17 7	6 0					
M 19	23 25	10 55	0 18	24 41	2 0	22 3	0 31	22 21	1 13	12 16	1 3	15 38	0 59	4 2	0 45	18 21	1 39	19 20	13 18	11 50	11 22	7 51	17 7	6 0					
T 20	23 25	13 57	0n46	24 29	1 59	22 13	0 29	22 14	1 13	12 13	1 2	15 39	0 59	4 1	0 45	18 22	1 39	19 20	13 18	11 50	11 21	7 52	17 6	6 0					
W 21	23 26	16 26	1 48	24 15	1 59	22 23	0 26	22 7	1 13	12 9	1 2	15 40	0 59	4 1	0 45	18 22	1 39	19 20	13 19	11 49	11 20	7 54	17 6	6 0					
T 22	23 26	18 12	2 47	23 59	1 57	22 32	0 24	22 0	1 13	12 6	1 2	15 41	0 59	4 0	0 45	18 23	1 39	19 21	13 19	11 48	11 18	7 56	17 6	6 0					
F 23	23 25	19 8	3 38	23 41	1 55	22 40	0 22	21 52	1 13	12 3	1 2	15 42	0 59	4 0	0 45	18 23	1 39	19 21	13 19	11 45	11 17	7 58	17 6	6 0					
S 24	23 24	19 6	4 20	23 22	1 52	22 48	0 19	21 44	1 13	11 59	1 2	15 42	0 59	3 59	0 45	18 23	1 39	19 22	13 20	11 42	11 16	7 59	17 5	6 0					
S 25	23 23	18 3	4 49	23 1	1 48	22 55	0 17	21 37	1 12	11 56	1 2	15 43	1 0	3 59	0 45	18 24	1 39	19 22	13 20	11 39	11 15	8 1	17 5	6 0					
M 26	23 21	16 1	5 3	22 39	1 44	23 1	0 14	21 29	1 12	11 52	1 2	15 44	1 0	3 58	0 45	18 24	1 39	19 22	13 21	11 35	11 14	8 3	17 5	6 0					
T 27	23 19	13 4	5 0	22 16	1 39	23 7	0 12	21 21	1 12	11 49	1 2	15 45	1 0	3 57	0 45	18 25	1 39	19 23	13 21	11 32	11 13	8 5	17 4	6 0					
W 28	23 17	9 23	4 39	21 53	1 34	23 12	0 9	21 13	1 12	11 45	1 2	15 46	1 0	3 57	0 45	18 25	1 39	19 23	13 21	11 29	11 12	8 6	17 4	6 0					
T 29	23 14	5 9	4 3	21 28	1 28	23 17	0 7	21 4	1 12	11 42	1 2	15 47	1 0	3 56	0 45	18 25	1 39	19 24	13 22	11 27	11 11	8 8	17 4	6 0					
F 30	23n11	0s36	3n11	21n 2	1n21	23n21	0s 5	20n56	1n12	11n38	1n 2	15s48	1s 0	3n55	0n45	18n26	1s39	19s24	13s22	11s26	11s 9	8s10	17s 4	6n					



# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

JULY 2051

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 36 3	9♂ 9'57	5♂11	3♂22	29♂28	2♂25	2♂24	19°R50	21♂52	29♂34	11°R54	29°D53	29♂ 4	18♂44	19°R53	S 1
S 2	18 39 59	10° 7'09	19°19	4°43	0♂41	3° 3	2°34	19°47	21°54	29°36	11°54	29°53	29° 1	18°50	19°49	S 2
M 3	18 43 56	11° 4'22	3♂29	6° 3	1°55	3°41	2°44	19°44	21°55	29°38	11°53	29°R53	28°58	18°57	19°45	M 3
T 4	18 47 52	12° 1'35	17°40	7°19	3° 9	4°19	2°54	19°41	21°57	29°40	11°53	29°52	28°54	19° 4	19°42	T 4
W 5	18 51 49	12°58'49	1♂50	8°33	4°22	4°57	3° 4	19°38	21°59	29°41	11°52	29°49	28°51	19°10	19°38	W 5
T 6	18 55 45	13°56'02	15°56	9°44	5°36	5°35	3°15	19°35	22° 1	29°43	11°52	29°43	28°48	19°17	19°35	T 6
F 7	18 59 42	14°53'16	29°53	10°53	6°49	6°13	3°25	19°32	22° 3	29°45	11°51	29°34	28°45	19°24	19°31	F 7
S 8	19 3 39	15°50'29	13♂39	11°59	8° 3	6°51	3°36	19°29	22° 5	29°47	11°50	29°24	28°42	19°30	19°28	S 8
S 9	19 7 35	16°47'43	27° 9	13° 2	9°17	7°28	3°46	19°25	22° 7	29°48	11°50	29°12	28°39	19°37	19°24	S 9
M10	19 11 32	17°44'57	10♂21	14° 2	10°30	8° 6	3°57	19°22	22° 9	29°50	11°49	29° 0	28°35	19°43	19°21	M10
T 11	19 15 28	18°42'11	23°13	14°58	11°44	8°44	4° 8	19°18	22°11	29°51	11°48	28°49	28°32	19°50	19°18	T 11
W12	19 19 25	19°39'25	5♂46	15°52	12°57	9°22	4°19	19°15	22°13	29°53	11°48	28°41	28°29	19°57	19°14	W12
T 13	19 23 21	20°36'38	18° 2	16°42	14°11	10° 0	4°30	19°11	22°16	29°55	11°47	28°35	28°26	20° 3	19°11	T 13
F 14	19 27 18	21°33'52	0♂ 4	17°29	15°25	10°38	4°41	19° 8	22°18	29°56	11°46	28°31	28°23	20°10	19° 8	F 14
S 15	19 31 14	22°31'06	11°57	18°12	16°39	11°16	4°52	19° 4	22°20	29°58	11°46	28°30	28°20	20°17	19° 5	S 15
S 16	19 35 11	23°28'20	23°46	18°51	17°52	11°54	5° 3	19° 0	22°22	29°59	11°45	28°29	28°16	20°23	19° 2	S 16
M17	19 39 8	24°25'34	5♂36	19°27	19° 6	12°32	5°14	18°56	22°25	0♂ 1	11°44	28°29	28°13	20°30	18°59	M17
T 18	19 43 4	25°22'48	17°32	19°59	20°20	13°10	5°25	18°52	22°27	0° 2	11°43	28°28	28°10	20°37	18°56	T 18
W19	19 47 1	26°20'02	29°40	20°26	21°33	13°48	5°37	18°48	22°30	0° 4	11°43	28°26	28° 7	20°43	18°54	W19
T 20	19 50 57	27°17'16	12♂ 5	20°49	22°47	14°26	5°48	18°45	22°32	0° 5	11°42	28°21	28° 4	20°50	18°51	T 20
F 21	19 54 54	28°14'31	24°49	21° 8	24° 1	15° 4	6° 0	18°40	22°35	0° 6	11°41	28°13	28° 0	20°57	18°48	F 21
S 22	19 58 50	29°11'46	7♂53	21°21	25°15	15°42	6°11	18°36	22°37	0° 8	11°40	28° 3	27°57	21° 3	18°46	S 22
S 23	20 2 47	0♂ 9'01	21°19	21°31	26°29	16°20	6°23	18°32	22°40	0° 9	11°39	27°51	27°54	21°10	18°43	S 23
M24	20 6 43	1° 6'17	5♂ 5	21°R35	27°42	16°58	6°34	18°28	22°43	0°10	11°38	27°39	27°51	21°16	18°41	M24
T 25	20 10 40	2° 3'34	19° 5	21°34	28°56	17°36	6°46	18°24	22°45	0°12	11°37	27°28	27°48	21°23	18°38	T 25
W26	20 14 37	3° 0'51	3♂17	21°29	0♂10	18°13	6°58	18°20	22°48	0°13	11°37	27°19	27°45	21°30	18°36	W26
T 27	20 18 33	3°58'09	17°34	21°18	1°24	18°51	7°10	18°15	22°51	0°14	11°36	27°12	27°41	21°36	18°34	T 27
F 28	20 22 30	4°55'28	1♂52	21° 3	2°38	19°29	7°22	18°11	22°54	0°15	11°35	27° 8	27°38	21°43	18°32	F 28
S 29	20 26 26	5°52'47	16° 8	20°42	3°52	20° 7	7°33	18° 7	22°56	0°17	11°34	27° 6	27°35	21°50	18°30	S 29
S 30	20 30 23	6°50'08	0♂20	20°17	5° 6	20°45	7°45	18° 3	22°59	0°18	11°33	27° 6	27°32	21°56	18°28	S 30
M31	20 34 19	7♂47'30	14♂25	19♂47	6♂20	21♂23	7♂57	17°58	23♂ 2	0♂19	11°32	27° 6	27°29	22° 3	18°26	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉		♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	lat
S 1	23n 7	4n 1	2n 7	20n36	1n14	23n24	0s 2	20n47	1n12	11n34	1n 1	15s49	1 s 1	3n55	0n45	18n26	1s39	19s25	13s22	11s26	11s 8	8s11	17s 3	6n 0											
S 2	23 3	8 25	0 56	20 9	1 6	23 26	0n 0	20 38	1 12	11 31	1 1	15 50	1 1	3 54	0 45	18 26	1 39	19 25	13 23	11 26	11 7	8 13	17 3	6 0											
M 3	22 58	12 22	0s19	19 41	0 58	23 28	0 3	20 29	1 12	11 27	1 1	15 51	1 1	3 53	0 45	18 27	1 39	19 26	13 23	11 26	11 6	8 15	17 3	6 0											
T 4	22 53	15 36	1 33	19 13	0 49	23 29	0 5	20 20	1 12	11 23	1 1	15 52	1 1	3 53	0 45	18 27	1 39	19 26	13 23	11 25	11 5	8 17	17 3	6 0											
W 5	22 48	17 53	2 41	18 45	0 40	23 29	0 8	20 11	1 12	11 19	1 1	15 53	1 1	3 52	0 45	18 27	1 39	19 27	13 23	11 24	11 4	8 18	17 3	6 0											
T 6	22 42	19 4	3 39	18 17	0 30	23 29	0 10	20 2	1 12	11 16	1 1	15 54	1 1	3 51	0 45	18 28	1 39	19 27	13 24	11 22	11 3	8 20	17 3	6 0											
F 7	22 36	19 3	4 22	17 49	0 20	23 28	0 12	19 52	1 12	11 12	1 1	15 56	1 1	3 50	0 45	18 28	1 39	19 28	13 24	11 19	11 2	8 22	17 2	6 0											
S 8	22 29	17 55	4 50	17 20	0 9	23 26	0 15	19 43	1 12	11 8	1 1	15 57	1 2	3 49	0 45	18 28	1 39	19 28	13 24	11 15	11 0	8 23	17 2	6 0											
S 9	22 22	15 48	5 1	16 52	0s 2	23 23	0 17	19 33	1 12	11 4	1 1	15 58	1 2	3 49	0 45	18 29	1 40	19 29	13 25	11 11	10 59	8 25	17 2	5 59											
M10	22 15	12 54	4 56	16 24	0 14	23 20	0 19	19 23	1 12	11 0	1 1	15 59	1 2	3 48	0 45	18 29	1 40	19 29	13 25	11 7	10 58	8 27	17 2	5 59											
T 11	22 8	9 26	4 35	15 56	0 26	23 16	0 22	19 13	1 11	10 56	1 1	16 0	1 2	3 47	0 45	18 29	1 40	19 30	13 25	11 3	10 57	8 29	17 2	5 59											
W12	21 59	5 39	4 1	15 28	0 38	23 12	0 24	19 3	1 11	10 52	1 1	16 2	1 2	3 46	0 44	18 30	1 40	19 30	13 26	11 0	10 56	8 30	17 2	5 59											
T 13	21 51	1 42	3 17	15 1	0 51	23 7	0 26	18 53	1 11	10 48	1 1	16 3	1 2	3 45	0 44	18 30	1 40	19 31	13 26	10 58	10 55	8 32	17 2	5 59											
F 14	21 42	2s14	2 25	14 35	1 3	23 1	0 29	18 42	1 11	10 44	1 1	16 4	1 2	3 44	0 44	18 30	1 40	19 31	13 26	10 57	10 54	8 34	17 2	5 59											
S 15	21 33	6 3	1 27	14 9	1 17	22 54	0 31	18 32	1 11	10 40	1 0	16 5	1 3	3 43	0 44	18 31	1 40	19 32	13 27	10 56	10 53	8 35	17 2	5 58											
S 16	21 23	9 37	0 25	13 44	1 30	22 47	0 33	18 21	1 11	10 36	1 0	16 7	1 3	3 42	0 44	18 31	1 40	19 32	13 27	10 56	10 51	8 37	17 2	5 58											
M17	21 14	12 47	0n38	13 20	1 44	22 39	0 35	18 10	1 11	10 31	1 0	16 8	1 3	3 41	0 44	18 31	1 40	19 33	13 27	10 56	10 50	8 39	17 2	5 58											
T 18	21 3	15 28	1 39	12 57	1 57	22 30	0 37	17 59	1 11	10 27	1 0	16 9	1 3	3 40	0 44	18 31	1 40	19 34	13 27	10 56	10 49	8 40	17 2	5 58											
W19	20 53	17 31	2 37	12 36	2 11	22 21	0 39	17 48	1 11	10 23	1 0	16 11	1 3	3 39	0 44	18 32	1 40	19 34	13 28	10 55	10 48	8 42	17 2	5 58											
T 20	20 42	18 47	3 29	12 15	2 25	22 11	0 41	17 37	1 11	10 19	1 0	16 12	1 3	3 38	0 44	18 32	1 40	19 35	13 28	10 53	10 47	8 44	17 2	5 57											
F 21	20 30	19 8	4 12	11 56	2 39	22 1	0 44	17 26	1 10	10 14	1 0	16 14	1 3	3 37	0 44	18 32	1 40	19 35	13 28	10 50	10 46	8 46	17 2	5 57											
S 22	20 19	18 30	4 43	11 39	2 53	21 50	0 46	17 15	1 10	10 10	1 0	16 15	1 3	3 36	0 44	18 32	1 40	19 36	13 28	10 47	10 45	8 47	17 2	5 57											
S 23	20 7	16 49	4 59	11 23	3 7	21 38	0 48	17 3	1 10	10 6	1 0	16 16	1 4	3 35	0 44	18 33	1 40	19 36	13 29	10 42	10 43	8 49	17 2	5 57											
M24	19 54	14 10	4 58	11 9	3 20	21 25	0 49	16 52	1 10	10 2	1 0	16 18	1 4	3 34	0 44	18 33	1 40	19 37	13 29	10 38	10 42	8 51	17 2	5 56											
T 25	19 42	10 39	4 40	10 57	3 33	21 12	0 51	16 40	1 10	9 57	1 0	16 19	1 4	3 33	0 44	18 33	1 40	19 38	13 29	10 34	10 41	8 52	17 2	5 56											
W26	19 29	6 30	4 4	10 47	3 46	20 58	0 53	16 28	1 10	9 53	1 0	16 21	1 4	3 32	0 44	18 33	1 40	19 38	13 29	10 31	10 40	8 54	17 2	5 56											
T 27	19 15	1 57	3 13	10 39	3 57	20 44	0 55	16 16	1 10	9 48	1 0	16 22	1 4	3 31	0 44	18 33	1 40	19 39	13 30	10 28	10 39	8 56	17 2	5 56											
F 28	19 2	2n43	2 9	10 33	4 9	20 29	0 57	16 4	1 10	9 44	1 0	16 23	1 4	3 30	0 44	18 34	1 40	19 39	13 30	10 27	10 38	8 57	17 2	5 55											
S 29	18 48	7 14	0 58	10 29	4 19	20 14	0 59	15 52	1 9	9 39	1 0	16 25	1 4	3 28	0 44	18 34	1 40	19 40	13 30	10 26	10 37	8 59	17 2	5 55											
S 30	18 33	11 19	0s17	10 28	4 29	19 58	1 0	15 40	1 9	9 35	1 0	16 26	1 4	3 27	0 44	18 34	1 40	19 41	13 30	10 26	10 35	9 1	17 2	5 55											
M31	18n19	14n43	1s30	10n30	4s37	19n41	1n 2	15n28	1n 9	9n30	1n 0	16s28	1s 4	3n26	0n44	18n34	1s40	19s41	13s31	10s26	10s34	9s 2	17s 3	5n54											



# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

AUGUST 2051

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 16	8♂44'53	28♂23	19°R14	7♂34	22♂1	8♂9	17°R54	23♂5	0♂20	11°R31	27°R 5	27♂26	22♂10	18°R24	T 1
W 2	20 42 12	9°42'17	12♂14	18♂36	8°48	22°39	8°22	17°49	23° 8	0°21	11°R30	27♂2	27°22	22°16	18♂22	W 2
T 3	20 46 9	10°39'43	25°56	17°56	10° 2	23°17	8°34	17°45	23°11	0°22	11°29	26°56	27°19	22°23	18°21	T 3
F 4	20 50 6	11°37'09	9♂30	17°12	11°16	23°55	8°46	17°40	23°14	0°23	11°28	26°47	27°16	22°30	18°19	F 4
S 5	20 54 2	12°34'37	22°51	16°27	12°30	24°33	8°58	17°36	23°17	0°24	11°26	26°37	27°13	22°36	18°18	S 5
S 6	20 57 59	13°32'05	6♂0	15°41	13°44	25°11	9°11	17°32	23°20	0°25	11°25	26°25	27°10	22°43	18°16	S 6
M 7	21 1 55	14°29'34	18°54	14°54	14°58	25°49	9°23	17°27	23°23	0°26	11°24	26°13	27° 6	22°50	18°15	M 7
T 8	21 5 52	15°27'05	1♂33	14° 8	16°12	26°27	9°35	17°23	23°27	0°27	11°23	26° 2	27° 3	22°56	18°14	T 8
W 9	21 9 48	16°24'36	13°56	13°24	17°26	27° 5	9°48	17°18	23°30	0°27	11°22	25°53	27° 0	23° 3	18°13	W 9
T 10	21 13 45	17°22'08	26° 6	12°41	18°40	27°43	10° 0	17°14	23°33	0°28	11°21	25°47	26°57	23° 9	18°12	T 10
F 11	21 17 41	18°19'41	8♂5	12° 2	19°54	28°21	10°13	17° 9	23°36	0°29	11°20	25°43	26°54	23°16	18°11	F 11
S 12	21 21 38	19°17'15	19°55	11°26	21° 8	28°59	10°25	17° 5	23°39	0°30	11°19	25°42	26°51	23°23	18°10	S 12
S 13	21 25 35	20°14'50	1♂43	10°56	22°23	29°37	10°38	17° 0	23°43	0°30	11°18	25°D42	26°47	23°29	18° 9	S 13
M14	21 29 31	21°12'26	13°32	10°30	23°37	0♂15	10°50	16°56	23°46	0°31	11°16	25°42	26°44	23°36	18° 8	M14
T 15	21 33 28	22°10'03	25°28	10°11	24°51	0°54	11° 3	16°51	23°49	0°32	11°15	25°R42	26°41	23°43	18° 8	T 15
W16	21 37 24	23° 7'41	7♂36	9°57	26° 5	1°32	11°16	16°47	23°53	0°32	11°14	25°41	26°38	23°49	18° 7	W16
T 17	21 41 21	24° 5'20	20° 2	9°D51	27°19	2°10	11°28	16°42	23°56	0°33	11°13	25°38	26°35	23°56	18° 7	T 17
F 18	21 45 17	25° 3'00	2♂49	9°52	28°34	2°48	11°41	16°38	24° 0	0°34	11°12	25°33	26°31	24° 3	18° 6	F 18
S 19	21 49 14	26° 0'41	16° 1	10° 0	29°48	3°26	11°54	16°33	24° 3	0°34	11°10	25°26	26°28	24° 9	18° 6	S 19
S 20	21 53 10	26°58'23	29°38	10°15	1♂2	4° 4	12° 6	16°29	24° 6	0°35	11° 9	25°17	26°25	24°16	18° 6	S 20
M21	21 57 7	27°56'06	13°39	10°38	2°16	4°42	12°19	16°25	24°10	0°35	11° 8	25° 8	26°22	24°23	18°D 6	M21
T 22	22 1 4	28°53'50	28° 0	11° 9	3°30	5°20	12°32	16°20	24°13	0°35	11° 7	24°59	26°19	24°29	18° 6	T 22
W23	22 5 0	29°51'36	12♂35	11°47	4°45	5°58	12°45	16°16	24°17	0°36	11° 6	24°52	26°16	24°36	18° 6	W23
T 24	22 8 57	0♂49'24	27°17	12°32	5°59	6°36	12°58	16°12	24°20	0°36	11° 4	24°47	26°12	24°42	18° 7	T 24
F 25	22 12 53	1°47'12	11°V59	13°25	7°13	7°15	13°10	16° 7	24°24	0°37	11° 3	24°44	26° 9	24°49	18° 7	F 25
S 26	22 16 50	2°45'03	26°35	14°24	8°27	7°53	13°23	16° 3	24°28	0°37	11° 2	24°D43	26° 6	24°56	18° 7	S 26
S 27	22 20 46	3°42'55	11♂0	15°30	9°42	8°31	13°36	15°59	24°31	0°37	11° 1	24°44	26° 3	25° 2	18° 8	S 27
M28	22 24 43	4°40'49	25°12	16°42	10°56	9° 9	13°49	15°55	24°35	0°37	10°59	24°45	26° 0	25° 9	18° 8	M28
T 29	22 28 39	5°38'46	9♂1	18° 1	12°10	9°47	14° 2	15°51	24°38	0°37	10°58	24°R45	25°57	25°16	18° 9	T 29
W30	22 32 36	6°36'44	22°51	19°25	13°25	10°25	14°15	15°47	24°42	0°38	10°57	24°44	25°53	25°22	18°10	W30
T 31	22 36 32	7♂34'43	6♂18	20♂54	14♂39	11♂4	14♂28	15°43	24♂46	0♂38	10°56	24♂41	25♂50	25♂29	18♂11	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	18n 4	17n14	2s38	10n33	4s44	19n24	1n 4	15n15	1n 9	9n26	1n 0	16s29	1s 5	3n25	0n44	18n34
W 2	17 49	18 42	3 35	10 39	4 49	19 6	1 5	15 3	1 9	9 21	1 0	16 31	1 5	3 24	0 44	18 35
T 3	17 33	19 3	4 19	10 48	4 53	18 48	1 7	14 50	1 9	9 17	1 0	16 32	1 5	3 22	0 44	18 35
F 4	17 18	18 18	4 48	10 58	4 56	18 29	1 8	14 37	1 9	9 12	1 0	16 34	1 5	3 21	0 44	18 35
S 5	17 2	16 33	5 1	11 11	4 56	18 9	1 9	14 24	1 8	9 7	1 0	16 35	1 5	3 20	0 44	18 35
S 6	16 45	13 57	4 58	11 26	4 55	17 50	1 11	14 12	1 8	9 3	1 0	16 36	1 5	3 19	0 44	18 35
M 7	16 29	10 44	4 39	11 42	4 52	17 29	1 12	13 59	1 8	8 58	1 0	16 38	1 5	3 17	0 44	18 35
T 8	16 12	7 5	4 7	12 0	4 47	17 8	1 13	13 45	1 8	8 53	1 0	16 39	1 5	3 16	0 44	18 35
W 9	15 55	3 11	3 23	12 18	4 41	16 47	1 14	13 32	1 8	8 49	1 0	16 41	1 5	3 15	0 44	18 36
T 10	15 37	0s46	2 31	12 38	4 32	16 25	1 16	13 19	1 8	8 44	1 0	16 42	1 5	3 14	0 44	18 36
F 11	15 20	4 37	1 33	12 59	4 22	16 3	1 17	13 6	1 7	8 39	1 0	16 44	1 5	3 12	0 44	18 36
S 12	15 2	8 16	0 31	13 19	4 11	15 40	1 18	12 52	1 7	8 35	0 59	16 45	1 6	3 11	0 44	18 36
S 13	14 44	11 34	0n32	13 40	3 58	15 17	1 19	12 39	1 7	8 30	0 59	16 47	1 6	3 10	0 43	18 36
M14	14 26	14 24	1 34	14 0	3 44	14 54	1 19	12 25	1 7	8 25	0 59	16 48	1 6	3 8	0 43	18 36
T 15	14 7	16 39	2 32	14 20	3 29	14 30	1 20	12 12	1 7	8 20	0 59	16 49	1 6	3 7	0 43	18 36
W16	13 48	18 12	3 25	14 39	3 13	14 5	1 21	11 58	1 7	8 15	0 59	16 51	1 6	3 6	0 43	18 36
T 17	13 29	18 55	4 9	14 57	2 56	13 41	1 22	11 44	1 6	8 11	0 59	16 52	1 6	3 4	0 43	18 36
F 18	13 10	18 42	4 42	15 13	2 39	13 16	1 22	11 30	1 6	8 6	0 59	16 54	1 6	3 3	0 43	18 36
S 19	12 51	17 29	5 1	15 28	2 22	12 50	1 23	11 16	1 6	8 1	0 59	16 55	1 6	3 2	0 43	18 36
S 20	12 31	15 15	5 4	15 41	2 4	12 24	1 24	11 2	1 6	7 56	0 59	16 56	1 6	3 0	0 43	18 37
M21	12 11	12 5	4 50	15 51	1 46	11 58	1 24	10 48	1 6	7 51	0 59	16 58	1 6	2 59	0 43	18 37
T 22	11 51	8 9	4 17	16 0	1 29	11 32	1 24	10 34	1 5	7 46	0 59	16 59	1 6	2 57	0 43	18 37
W23	11 31	3 39	3 26	16 6	1 12	11 5	1 25	10 20	1 5	7 41	0 59	17 1	1 6	2 56	0 43	18 37
T 24	11 11	1n 6	2 22	16 10	0 55	10 38	1 25	10 5	1 5	7 36	0 59	17 2	1 6	2 55	0 43	18 37
F 25	10 50	5 47	1 8	16 11	0 38	10 10	1 25	9 51	1 5	7 32	0 59	17 3	1 6	2 53	0 43	18 37
S 26	10 29	10 6	0s10	16 9	0 23	9 43	1 25	9 37	1 5	7 27	1 0	17 4	1 6	2 52	0 43	18 37
S 27	10 9	13 45	1 27	16 4	0 7	9 15	1 25	9 22	1 4	7 22	1 0	17 6	1 6	2 50	0 43	18 37
M28	9 47	16 31	2 37	15 56	0n 7	8 47	1 25	9 8	1 4	7 17	1 0	17 7	1 6	2 49	0 43	18 37
T 29	9 26	18 15	3 36	15 45	0 20	8 18	1 25	8 53	1 4	7 12	1 0	17 8	1 7	2 47	0 43	18 37
W30	9 5	18 52	4 22	15 31	0 33	7 50	1 25	8 38	1 4	7 7	1 0	17 10	1 7	2 46	0 43	18 37
T 31	8n43	18n24	4s53	15n14	0n45	7n21	1n25	8n24	1n 4	7n 2	1n 0	17s11	1s 7	2n44	0n43	18n37

Julian Day Number = 2470384.5, Delta T = 75.05 sec  
 Ecliptic obliquity = 23°25'49, Nutation = 0°00'09, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°27'39, Lahiri = 24°34'40

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

SEPTEMBER 2051

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 40 29	8 <sup>h</sup> 32'45	19 <sup>h</sup> 32	22 <sup>h</sup> 27	15 <sup>h</sup> 53	11 <sup>h</sup> 42	14 <sup>h</sup> 41	15°R39	24 <sup>h</sup> 49	0 <sup>h</sup> 38	10°R54	24°R36	25 <sup>h</sup> 47	25 <sup>h</sup> 36	18 <sup>h</sup> 12	F 1
S 2	22 44 26	9°30'49	2 <sup>h</sup> 32	24° 5	17° 8	12°20	14°54	15 <sup>h</sup> 35	24°53	0°38	10 <sup>h</sup> 53	24 <sup>h</sup> 29	25°44	25°42	18°13	S 2
S 3	22 48 22	10°28'54	15°19	25°47	18°22	12°58	15° 7	15°31	24°57	0°R38	10°52	24°21	25°41	25°49	18°14	S 3
M 4	22 52 19	11°27'01	27°54	27°32	19°37	13°37	15°20	15°27	25° 0	0°38	10°51	24°13	25°37	25°56	18°15	M 4
T 5	22 56 15	12°25'09	10 <sup>h</sup> 17	29°19	20°51	14°15	15°33	15°23	25° 4	0°38	10°49	24° 6	25°34	26° 2	18°16	T 5
W 6	23 0 12	13°23'20	22°28	1 <sup>h</sup> 9	22° 5	14°53	15°46	15°20	25° 8	0°38	10°48	24° 1	25°31	26° 9	18°18	W 6
T 7	23 4 8	14°21'32	4 <sup>h</sup> 29	3° 0	23°20	15°32	15°59	15°16	25°12	0°38	10°47	23°57	25°28	26°15	18°19	T 7
F 8	23 8 5	15°19'46	16°22	4°53	24°34	16°10	16°12	15°12	25°15	0°38	10°45	23°55	25°25	26°22	18°21	F 8
S 9	23 12 1	16°18'01	28°10	6°47	25°49	16°48	16°25	15° 9	25°19	0°37	10°44	23°D55	25°22	26°29	18°23	S 9
S 10	23 15 58	17°16'18	9 <sup>h</sup> 56	8°41	27° 3	17°27	16°38	15° 5	25°23	0°37	10°43	23°56	25°18	26°35	18°24	S 10
M 11	23 19 55	18°14'36	21°45	10°36	28°17	18° 5	16°51	15° 2	25°27	0°37	10°42	23°57	25°15	26°42	18°26	M 11
T 12	23 23 51	19°12'56	3 <sup>h</sup> 40	12°31	29°32	18°43	17° 4	14°59	25°30	0°37	10°40	23°59	25°12	26°49	18°28	T 12
W 13	23 27 48	20°11'18	15°47	14°26	0 <sup>h</sup> 46	19°22	17°17	14°55	25°34	0°36	10°39	24°R 0	25° 9	26°55	18°30	W 13
T 14	23 31 44	21° 9'42	28°10	16°20	2° 1	20° 0	17°30	14°52	25°38	0°36	10°38	24° 0	25° 6	27° 2	18°33	T 14
F 15	23 35 41	22° 8'06	10 <sup>h</sup> 55	18°15	3°15	20°39	17°43	14°49	25°42	0°36	10°37	23°58	25° 3	27° 9	18°35	F 15
S 16	23 39 37	23° 6'33	24° 5	20° 8	4°30	21°17	17°56	14°46	25°45	0°35	10°36	23°56	24°59	27°15	18°37	S 16
S 17	23 43 34	24° 5'01	7 <sup>h</sup> 42	22° 1	5°44	21°55	18° 9	14°43	25°49	0°35	10°34	23°52	24°56	27°22	18°39	S 17
M 18	23 47 30	25° 3'31	21°46	23°53	6°58	22°34	18°22	14°40	25°53	0°34	10°33	23°48	24°53	27°29	18°42	M 18
T 19	23 51 27	26° 2'02	6 <sup>h</sup> 15	25°44	8°13	23°12	18°35	14°37	25°57	0°34	10°32	23°43	24°50	27°35	18°45	T 19
W 20	23 55 24	27° 0'35	21° 4	27°34	9°27	23°51	18°48	14°35	26° 1	0°33	10°31	23°40	24°47	27°42	18°47	W 20
T 21	23 59 20	27°59'10	6 <sup>h</sup> 9	29°24	10°42	24°29	19° 1	14°32	26° 4	0°33	10°29	23°38	24°43	27°48	18°50	T 21
F 22	0 3 17	28°57'47	21° 8	1 <sup>h</sup> 12	11°56	25° 8	19°14	14°30	26° 8	0°32	10°28	23°D37	24°40	27°55	18°53	F 22
S 23	0 7 13	29°56'26	6 <sup>h</sup> 8	3° 0	13°11	25°46	19°27	14°27	26°12	0°32	10°27	23°38	24°37	28° 2	18°56	S 23
S 24	0 11 10	0 <sup>h</sup> 55'07	20°51	4°46	14°25	26°25	19°40	14°25	26°16	0°31	10°26	23°39	24°34	28° 8	18°59	S 24
M 25	0 15 6	1°53'51	5 <sup>h</sup> 18	6°32	15°39	27° 4	19°52	14°22	26°20	0°30	10°25	23°40	24°31	28°15	19° 2	M 25
T 26	0 19 3	2°52'37	19°24	8°17	16°54	27°42	20° 5	14°20	26°23	0°30	10°24	23°41	24°28	28°22	19° 5	T 26
W 27	0 22 59	3°51'25	3 <sup>h</sup> 9	10° 0	18° 8	28°21	20°18	14°18	26°27	0°29	10°22	23°R42	24°24	28°28	19° 8	W 27
T 28	0 26 56	4°50'15	16°31	11°43	19°23	28°59	20°31	14°16	26°31	0°28	10°21	23°41	24°21	28°35	19°11	T 28
F 29	0 30 52	5°49'08	29°35	13°25	20°37	29°38	20°44	14°14	26°35	0°27	10°20	23°40	24°18	28°42	19°15	F 29
S 30	0 34 49	6 <sup>h</sup> 48'03	12 <sup>h</sup> 21	15 <sup>h</sup> 6	21 <sup>h</sup> 52	0 <sup>h</sup> 17	20 <sup>h</sup> 56	14 <sup>h</sup> 12	26 <sup>h</sup> 38	0 <sup>h</sup> 26	10 <sup>h</sup> 19	23 <sup>h</sup> 38	24 <sup>h</sup> 15	28 <sup>h</sup> 48	19 <sup>h</sup> 18	S 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	decl	lat
F 1	8n22	16n56	5s 7	14n54	0n55	6n52	1n25	8n 9	1n 3	6n57	1n 0	17s12	1s 7	2n43	0n43	18n37	1s42	20s 0	13s35	9s32	9s58	9s54	17s13	5n42			
S 2	8 0	14 37	5 6	14 30	1 5	6 23	1 24	7 54	1 3	6 52	1 0	17 13	1 7	2 42	0 43	18 37	1 42	20 0	13 35	9 29	9 56	9 56	17 14	5 42			
S 3	7 38	11 38	4 48	14 5	1 14	5 53	1 24	7 39	1 3	6 47	1 0	17 14	1 7	2 40	0 43	18 36	1 42	20 1	13 35	9 26	9 55	9 58	17 14	5 42			
M 4	7 16	8 10	4 17	13 36	1 21	5 24	1 24	7 24	1 3	6 42	1 0	17 16	1 7	2 39	0 43	18 36	1 42	20 1	13 35	9 23	9 54	9 59	17 15	5 41			
T 5	6 54	4 24	3 35	13 5	1 28	4 54	1 23	7 9	1 2	6 37	1 0	17 17	1 7	2 37	0 43	18 36	1 42	20 2	13 35	9 21	9 53	10 1	17 15	5 41			
W 6	6 32	0 30	2 43	12 31	1 33	4 24	1 22	6 54	1 2	6 32	1 0	17 18	1 7	2 36	0 43	18 36	1 42	20 2	13 35	9 19	9 52	10 2	17 16	5 40			
T 7	6 9	3s22	1 44	11 55	1 38	3 54	1 22	6 39	1 2	6 27	1 0	17 19	1 7	2 34	0 43	18 36	1 42	20 3	13 35	9 17	9 51	10 4	17 16	5 40			
F 8	5 47	7 4	0 41	11 18	1 42	3 24	1 21	6 24	1 2	6 22	1 0	17 20	1 7	2 33	0 43	18 36	1 43	20 3	13 35	9 17	9 49	10 6	17 17	5 40			
S 9	5 24	10 27	0n23	10 38	1 45	2 54	1 20	6 9	1 1	6 17	1 0	17 21	1 7	2 31	0 43	18 36	1 43	20 4	13 35	9 17	9 48	10 7	17 17	5 39			
S 10	5 2	13 25	1 27	9 57	1 47	2 23	1 19	5 54	1 1	6 12	1 0	17 22	1 7	2 30	0 43	18 36	1 43	20 4	13 35	9 17	9 47	10 9	17 18	5 39			
M 11	4 39	15 50	2 26	9 15	1 48	1 53	1 19	5 39	1 1	6 7	1 0	17 23	1 7	2 28	0 43	18 36	1 43	20 5	13 35	9 18	9 46	10 10	17 19	5 38			
T 12	4 16	17 36	3 21	8 32	1 48	1 22	1 18	5 24	1 1	6 2	1 0	17 24	1 7	2 27	0 43	18 36	1 43	20 5	13 35	9 18	9 45	10 12	17 19	5 38			
W 13	3 53	18 35	4 7	7 47	1 48	0 52	1 17	5 8	1 1	5 57	1 0	17 25	1 7	2 25	0 43	18 36	1 43	20 6	13 35	9 18	9 44	10 13	17 20	5 38			
T 14	3 30	18 43	4 42	7 2	1 47	0 21	1 15	4 53	1 0	5 52	1 0	17 26	1 7	2 24	0 43	18 35	1 43	20 6	13 35	9 18	9 43	10 15	17 20	5 37			
F 15	3 7	17 54	5 6	6 16	1 45	0s 9	1 14	4 38	1 0	5 47	1 0	17 27	1 7	2 22	0 43	18 35	1 43	20 7	13 35	9 18	9 41	10 17	17 21	5 37			
S 16	2 44	16 8	5 14	5 29	1 43	0 40	1 13	4 22	1 0	5 42	1 0	17 28	1 7	2 21	0 43	18 35	1 43	20 7	13 35	9 17	9 40	10 18	17 21	5 36			
S 17	2 21	13 26	5 5	4 42	1 40	1 11	1 12	4 7	0 59	5 36	1 0	17 29	1 7	2 19	0 43	18 35	1 43	20 8	13 35	9 15	9 39	10 20	17 22	5 36			
M 18	1 58	9 52	4 37	3 55	1 37	1 41	1 11	3 51	0 59	5 31	1 0	17 30	1 7	2 18	0 43	18 35	1 43	20 8	13 35	9 14	9 38	10 21	17 23	5 36			
T 19	1 35	5 37	3 52	3 7	1 33	2 12	1 9	3 36	0 59	5 26	1 0	17 31	1 7	2 16	0 43	18 35	1 43	20 8	13 35	9 12	9 37	10 23	17 23	5 35			
W 20	1 11	0 56	2 50	2 20	1 29	2 42	1 8	3 20	0 59	5 21	1 0	17 31	1 7	2 15	0 43	18 35	1 43	20 9	13 35	9 11	9 36	10 24	17 24	5 35			
T 21	0 48	3n52	1 35	1 32	1 25	3 13	1 6	3 5	0 58	5 16	1 0	17 32	1 7	2 13	0 43	18 34	1 43	20 9	13 35	9 10	9 34	10 26	17 24	5 34			
F 22	0 25	8 27	0 14	0 45	1 20	3 43	1 5	2 49	0 58	5 11	1 1	17 33	1 7	2 12	0 43	18 34	1 43	20 10	13 35	9 10	9 33	10 27	17 25	5 34			
S 23	0 1	12 28	1s 8	0s 3	1 15	4 14	1 3	2 34	0 58	5 6	1 1	17 33	1 7	2 10	0 43	18 34	1 43	20 10	13 35	9 10	9 32	10 29	17 26	5 34			
S 24	0s22	15 38	2 25	0 50	1 10	4 44	1 1	2 18	0 58	5 1	1 1	17 34	1 7	2 9	0 43	18 34	1 43	20 10	13 35	9 11	9 31	10 31	17 26	5 33			
M 25	0 45	17 44	3 30	1 37	1 4	5 15	1 0	2 3	0 57	4 56	1 1	17 35	1 7	2 7	0 43	18 34	1 43	20 11	13 35	9 11	9 30	10 32	17 27	5 33			
T 26	1 9	18 40	4 21	2 24	0 58	5 45	0 58	1 47	0 57	4 51	1 1	17 35	1 7	2 6	0 43	18 34	1 43	20 11	13 35	9 12	9 29	10 34	17 27	5 32			
W 27	1 32	18 28	4 56	3 10	0 52	6 15	0 56	1 32	0 57	4 46	1 1	17 36	1 7	2 4	0 43	18 33	1 44	20 12	13 34	9 12	9 27	10 35	17 28	5 32			
T 28	1 55	17 13	5 14	3 56	0 46	6 45	0 54	1 16	0 56	4 41	1 1	17 37	1 7	2 3	0 43	18 33	1 44	20 12	13 34	9 12	9 26	10 37	17 29	5 32			
F 29	2 19	15 6	5 14	4 41	0 39	7 14	0 52	1 0	0 56	4 36	1 1	17 37	1 7	2 1	0 43	18 33	1 44	20 12	13 34	9 11	9 25	10 38	17 29	5 31			
S 30	2s42	12n18	5s 0	5s26	0n33	7s44	0n50	0n45	0n56	4n32	1n 1	17s38	1s 7	2n 0	0n43	18n33	1s44	20s13	13s34	9s10	9s24	10s40	17s30	5n31			

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

OCTOBER 2051

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 46	7♏47'00	24♏52	16♏46	23♏ 6	0♏55	21♏ 9	14°R10	26♏42	0°R25	10°R18	23°R36	24♏12	28♏55	19♏22	S 1
M 2	0 42 42	8°45'59	7♏10	18°25	24°21	1°34	21°22	14°8 9	26°46	0♏25	10°17	23°33	24° 8	29° 2	19°25	M 2
T 3	0 46 39	9°45'01	19°18	20° 3	25°35	2°13	21°35	14° 7	26°50	0°24	10°16	23°31	24° 5	29° 8	19°29	T 3
W 4	0 50 35	10°44'04	1♏17	21°40	26°50	2°52	21°47	14° 6	26°53	0°23	10°15	23°30	24° 2	29°15	19°33	W 4
T 5	0 54 32	11°43'10	13°11	23°17	28° 4	3°30	22° 0	14° 4	26°57	0°22	10°14	23°29	23°59	29°22	19°37	T 5
F 6	0 58 28	12°42'18	24°59	24°52	29°19	4° 9	22°13	14° 3	27° 1	0°21	10°13	23°D29	23°56	29°28	19°41	F 6
S 7	1 2 25	13°41'27	6♏46	26°27	0♏33	4°48	22°25	14° 2	27° 4	0°20	10°12	23°29	23°53	29°35	19°45	S 7
S 8	1 6 21	14°40'39	18°33	28° 2	1°47	5°27	22°38	14° 1	27° 8	0°19	10°11	23°30	23°49	29°41	19°49	S 8
M 9	1 10 18	15°39'53	0♏24	29°35	3° 2	6° 6	22°50	14° 0	27°12	0°18	10°10	23°31	23°46	29°48	19°53	M 9
T 10	1 14 15	16°39'08	12°21	1♏ 7	4°16	6°45	23° 3	13°59	27°15	0°16	10° 9	23°31	23°43	29°55	19°57	T 10
W11	1 18 11	17°38'25	24°28	2°39	5°31	7°23	23°15	13°58	27°19	0°15	10° 8	23°32	23°40	0♏ 1	20° 1	W11
T 12	1 22 8	18°37'44	6♏50	4°10	6°45	8° 2	23°27	13°57	27°22	0°14	10° 7	23°32	23°37	0° 8	20° 6	T 12
F 13	1 26 4	19°37'05	19°31	5°41	8° 0	8°41	23°40	13°57	27°26	0°13	10° 6	23°R33	23°34	0°15	20°10	F 13
S 14	1 30 1	20°36'28	2♏34	7°10	9°14	9°20	23°52	13°56	27°30	0°12	10° 5	23°32	23°30	0°21	20°15	S 14
S 15	1 33 57	21°35'52	16° 3	8°39	10°29	9°59	24° 4	13°56	27°33	0°11	10° 4	23°32	23°27	0°28	20°19	S 15
M16	1 37 54	22°35'18	29°59	10° 7	11°43	10°38	24°16	13°55	27°37	0° 9	10° 3	23°32	23°24	0°35	20°24	M16
T 17	1 41 50	23°34'46	14♏21	11°35	12°58	11°17	24°29	13°55	27°40	0° 8	10° 2	23°D32	23°21	0°41	20°29	T 17
W18	1 45 47	24°34'15	29° 7	13° 1	14°12	11°56	24°41	13°D55	27°44	0° 7	10° 1	23°32	23°18	0°48	20°33	W18
T 19	1 49 44	25°33'47	14°Y11	14°27	15°26	12°35	24°53	13°55	27°47	0° 5	10° 1	23°32	23°14	0°55	20°38	T 19
F 20	1 53 40	26°33'20	29°24	15°52	16°41	13°14	25° 5	13°55	27°51	0° 4	10° 0	23°R32	23°11	1° 1	20°43	F 20
S 21	1 57 37	27°32'56	14♏36	17°16	17°55	13°53	25°17	13°55	27°54	0° 3	9°59	23°32	23° 8	1° 8	20°48	S 21
S 22	2 1 33	28°32'33	29°39	18°40	19°10	14°32	25°29	13°56	27°57	0° 1	9°58	23°32	23° 5	1°14	20°53	S 22
M23	2 5 30	29°32'13	14♏24	20° 2	20°24	15°11	25°40	13°56	28° 1	29♏59	9°58	23°31	23° 2	1°21	20°58	M23
T 24	2 9 26	0♏31'55	28°45	21°23	21°38	15°51	25°52	13°57	28° 4	29°59	9°57	23°30	22°59	1°28	21° 3	T 24
W25	2 13 23	1°31'40	12♏40	22°44	22°53	16°30	26° 4	13°57	28° 8	29°57	9°56	23°30	22°55	1°34	21° 8	W25
T 26	2 17 19	2°31'26	26° 7	24° 3	24° 7	17° 9	26°16	13°58	28°11	29°56	9°55	23°29	22°52	1°41	21°13	T 26
F 27	2 21 16	3°31'15	9♏10	25°21	25°22	17°48	26°27	13°59	28°14	29°54	9°55	23°D29	22°49	1°48	21°19	F 27
S 28	2 25 13	4°31'06	21°51	26°38	26°36	18°27	26°39	14° 0	28°17	29°53	9°54	23°30	22°46	1°54	21°24	S 28
S 29	2 29 9	5°30'59	4♏14	27°54	27°50	19° 7	26°50	14° 1	28°21	29°51	9°54	23°31	22°43	2° 1	21°29	S 29
M30	2 33 6	6°30'54	16°22	29° 8	29° 5	19°46	27° 2	14° 2	28°24	29°50	9°53	23°32	22°39	2° 8	21°35	M30
T 31	2 37 2	7♏30'52	28♏20	0♏20	0♏19	20♏25	27♏13	14°8 3	28♏27	29♏48	9°52	23♏33	22♏36	2♏14	21♏40	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	3s 5	8n59	4s31	6s11	0n26	8s14	0n48	0n29	0n56	4n27	1n 1	17s38	1s 7	1n58	0n43	S 1
M 2	3 28	5 19	3 49	6 55	0 19	8 43	0 46	0 13	0 55	4 22	1 1	17 39	1 7	1 57	0 43	M 2
T 3	3 52	1 30	2 58	7 39	0 12	9 12	0 44	0s 2	0 55	4 17	1 1	17 39	1 7	1 55	0 43	T 3
W 4	4 15	2s21	2 0	8 22	0 5	9 41	0 42	0 18	0 55	4 12	1 1	17 39	1 7	1 54	0 43	W 4
T 5	4 38	6 4	0 57	9 4	0s 2	10 10	0 40	0 34	0 54	4 7	1 2	17 40	1 7	1 52	0 43	T 5
F 6	5 1	9 32	0n 8	9 46	0 9	10 38	0 38	0 49	0 54	4 2	1 2	17 40	1 7	1 51	0 43	F 6
S 7	5 24	12 37	1 13	10 27	0 16	11 6	0 36	1 5	0 54	3 57	1 2	17 41	1 7	1 49	0 43	S 7
S 8	5 47	15 11	2 15	11 7	0 23	11 34	0 33	1 21	0 53	3 52	1 2	17 41	1 7	1 48	0 43	S 8
M 9	6 10	17 6	3 11	11 47	0 30	12 2	0 31	1 36	0 53	3 47	1 2	17 41	1 7	1 47	0 43	M 9
T 10	6 33	18 18	4 0	12 26	0 37	12 29	0 29	1 52	0 53	3 43	1 2	17 41	1 7	1 45	0 43	T 10
W11	6 55	18 41	4 38	13 5	0 44	12 57	0 26	2 8	0 52	3 38	1 2	17 42	1 6	1 44	0 43	W11
T 12	7 18	18 11	5 5	13 42	0 51	13 23	0 24	2 23	0 52	3 33	1 2	17 42	1 6	1 42	0 43	T 12
F 13	7 40	16 46	5 17	14 19	0 58	13 50	0 21	2 39	0 52	3 28	1 2	17 42	1 6	1 41	0 43	F 13
S 14	8 3	14 28	5 14	14 55	1 5	14 16	0 19	2 55	0 52	3 23	1 2	17 42	1 6	1 39	0 43	S 14
S 15	8 25	11 20	4 54	15 31	1 12	14 42	0 17	3 10	0 51	3 19	1 3	17 42	1 6	1 38	0 43	S 15
M16	8 47	7 28	4 16	16 5	1 18	15 7	0 14	3 26	0 51	3 14	1 3	17 42	1 6	1 37	0 43	M16
T 17	9 9	3 3	3 21	16 39	1 25	15 32	0 11	3 41	0 50	3 9	1 3	17 42	1 6	1 35	0 43	T 17
W18	9 31	1n40	2 12	17 12	1 31	15 57	0 9	3 57	0 50	3 5	1 3	17 42	1 6	1 34	0 43	W18
T 19	9 53	6 23	0 52	17 44	1 38	16 21	0 6	4 12	0 50	3 0	1 3	17 42	1 6	1 33	0 43	T 19
F 20	10 14	10 45	0s33	18 15	1 44	16 45	0 4	4 28	0 49	2 55	1 3	17 42	1 6	1 31	0 43	F 20
S 21	10 36	14 23	1 55	18 45	1 50	17 9	0 1	4 43	0 49	2 51	1 3	17 42	1 6	1 30	0 43	S 21
S 22	10 57	17 1	3 8	19 14	1 56	17 32	0s 1	4 59	0 49	2 46	1 3	17 42	1 6	1 28	0 43	S 22
M23	11 18	18 26	4 7	19 42	2 2	17 54	0 4	5 14	0 48	2 41	1 3	17 42	1 6	1 27	0 43	M23
T 24	11 39	18 37	4 49	20 9	2 7	18 17	0 7	5 30	0 48	2 37	1 4	17 41	1 6	1 26	0 43	T 24
W25	12 0	17 39	5 12	20 35	2 13	18 38	0 9	5 45	0 48	2 32	1 4	17 41	1 6	1 25	0 43	W25
T 26	12 21	15 43	5 18	21 0	2 18	18 59	0 12	6 0	0 47	2 28	1 4	17 41	1 6	1 23	0 43	T 26
F 27	12 41	13 2	5 6	21 24	2 23	19 20	0 15	6 16	0 47	2 23	1 4	17 41	1 6	1 22	0 43	F 27
S 28	13 1	9 48	4 40	21 47	2 27	19 40	0 17	6 31	0 47	2 19	1 4	17 40	1 6	1 21	0 43	S 28
S 29	13 21	6 13	4 1	22 8	2 31	20 0	0 20	6 46	0 46	2 14	1 4	17 40	1 6	1 19	0 43	S 29
M30	13 41	2 25	3 12	22 29	2 35	20 19	0 23	7 1	0 46	2 10	1 4	17 40	1 6	1 18	0 43	M30
T 31	14s 1	1s25	2s16	22s48	2s38	20s37	0s25	7s16	0n45	2n 6	1n 5	17s39	1s 6	1n17	0n44	T 31

Julian Day Number = 2470445.5, Delta T = 75.09 sec  
 Ecliptic obliquity = 23°25'49, Nutation = 0°00'07, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°27'48, Lahiri = 24°34'48

# ASTRODIENST EPHEMERIS for the year 2051

## geocentric

NOVEMBER 2051

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 40 59	8♌30'51	10♋12	1♈31	1♈34	21♏5	27♏24	14♏4	28♏30	29°R47	9°R52	23♏34	22♏33	2♌21	21♈46	W 1
T 2	2 44 55	9°30'53	21°59	2°39	2°48	21°44	27°35	14°6	28°33	29°R45	9°R51	23°R35	22°30	2°28	21°52	T 2
F 3	2 48 52	10°30'56	3♌46	3°46	4°2	22°23	27°47	14°7	28°36	29°44	9°51	23°34	22°27	2°34	21°57	F 3
S 4	2 52 48	11°31'02	15°35	4°50	5°17	23°3	27°58	14°9	28°39	29°42	9°50	23°33	22°24	2°41	22°3	S 4
S 5	2 56 45	12°31'09	27°27	5°51	6°31	23°42	28°9	14°11	28°42	29°40	9°50	23°31	22°20	2°48	22°9	S 5
M 6	3 0 41	13°31'18	9♈24	6°49	7°45	24°22	28°20	14°12	28°45	29°39	9°49	23°28	22°17	2°54	22°14	M 6
T 7	3 4 38	14°31'29	21°29	7°44	9°0	25°1	28°30	14°14	28°48	29°37	9°49	23°24	22°14	3°1	22°20	T 7
W 8	3 8 35	15°31'41	3♈43	8°34	10°14	25°41	28°41	14°16	28°51	29°35	9°49	23°21	22°11	3°7	22°26	W 8
T 9	3 12 31	16°31'55	16°10	9°21	11°28	26°20	28°52	14°19	28°54	29°34	9°48	23°18	22°8	3°14	22°32	T 9
F 10	3 16 28	17°32'11	28°51	10°3	12°43	27°0	29°2	14°21	28°57	29°32	9°48	23°15	22°5	3°21	22°38	F 10
S 11	3 20 24	18°32'28	11♏51	10°39	13°57	27°39	29°13	14°23	29°0	29°31	9°48	23°14	22°1	3°27	22°44	S 11
S 12	3 24 21	19°32'46	25°11	11°10	15°11	28°19	29°23	14°26	29°2	29°29	9°47	23°D14	21°58	3°34	22°50	S 12
M13	3 28 17	20°33'06	8♈54	11°33	16°26	28°59	29°34	14°28	29°5	29°27	9°47	23°15	21°55	3°41	22°56	M13
T 14	3 32 14	21°33'27	23°0	11°50	17°40	29°38	29°44	14°31	29°8	29°26	9°47	23°16	21°52	3°47	23°2	T 14
W15	3 36 10	22°33'49	7°Y30	11°R58	18°54	0♌18	29°54	14°33	29°10	29°24	9°46	23°18	21°49	3°54	23°8	W15
T 16	3 40 7	23°34'13	22°20	11°58	20°8	0°57	0♌4	14°36	29°13	29°22	9°46	23°R18	21°45	4°1	23°14	T 16
F 17	3 44 4	24°34'39	7♈24	11°48	21°23	1°37	0°14	14°39	29°15	29°20	9°46	23°18	21°42	4°7	23°21	F 17
S 18	3 48 0	25°35'05	22°34	11°28	22°37	2°17	0°24	14°42	29°18	29°19	9°46	23°16	21°39	4°14	23°27	S 18
S 19	3 51 57	26°35'34	7♏41	10°58	23°51	2°57	0°33	14°45	29°20	29°17	9°46	23°12	21°36	4°21	23°33	S 19
M20	3 55 53	27°36'04	22°35	10°17	25°5	3°36	0°43	14°48	29°23	29°15	9°46	23°7	21°33	4°27	23°39	M20
T 21	3 59 50	28°36'36	7♏7	9°26	26°20	4°16	0°53	14°52	29°25	29°14	9°46	23°1	21°30	4°34	23°46	T 21
W22	4 3 46	29°37'10	21°13	8°25	27°34	4°56	1°2	14°55	29°28	29°12	9°46	22°56	21°26	4°41	23°52	W22
T 23	4 7 43	0♈37'45	4♏51	7°17	28°48	5°36	1°11	14°58	29°30	29°10	9°46	22°52	21°23	4°47	23°59	T 23
F 24	4 11 39	1°38'22	17°59	6°1	0°3	6°16	1°21	15°2	29°32	29°9	9°D46	22°49	21°20	4°54	24°5	F 24
S 25	4 15 36	2°39'00	0♏43	4°41	1°16	6°56	1°30	15°5	29°34	29°7	9°46	22°D48	21°17	5°0	24°11	S 25
S 26	4 19 33	3°39'40	13°5	3°19	2°30	7°36	1°39	15°9	29°37	29°5	9°46	22°48	21°14	5°7	24°18	S 26
M27	4 23 29	4°40'22	25°10	1°58	3°45	8°16	1°47	15°13	29°39	29°4	9°46	22°50	21°11	5°14	24°24	M27
T 28	4 27 26	5°41'05	7♏5	0°40	4°59	8°56	1°56	15°17	29°41	29°2	9°46	22°51	21°7	5°20	24°31	T 28
W29	4 31 22	6°41'50	18°52	29♌28	6°13	9°36	2°5	15°21	29°43	29°0	9°46	22°R52	21°4	5°27	24°37	W29
T 30	4 35 19	7♈42'37	0♌38	28♌25	7♏27	10♌16	2♏13	15°25	29°45	28°R58	9°R46	22°D52	21♏1	5♌34	24♈44	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s20	5s10	1s14	23s5	2s42	20s55	0s28	7s32	0n45	2n1	1n5	17s39	1s6	1n16	0n44	18n23
T 2	14 39	8 42	0 9	23 22	2 44	21 13	0 31	7 47	0 45	1 57	1 5	17 38	1 6	1 14	0 44	18 23
F 3	14 58	11 53	0n56	23 37	2 46	21 29	0 33	8 2	0 44	1 53	1 5	17 38	1 6	1 13	0 44	18 23
S 4	15 17	14 36	1 59	23 51	2 48	21 46	0 36	8 17	0 44	1 48	1 5	17 37	1 6	1 12	0 44	18 22
S 5	15 35	16 43	2 57	24 3	2 49	22 1	0 38	8 31	0 43	1 44	1 5	17 37	1 6	1 11	0 44	18 22
M 6	15 53	18 7	3 47	24 13	2 49	22 16	0 41	8 46	0 43	1 40	1 5	17 36	1 6	1 10	0 44	18 22
T 7	16 11	18 42	4 28	24 22	2 49	22 31	0 44	9 1	0 43	1 36	1 6	17 36	1 6	1 9	0 44	18 21
W 8	16 29	18 26	4 57	24 29	2 48	22 44	0 46	9 16	0 42	1 32	1 6	17 35	1 5	1 8	0 44	18 21
T 9	16 46	17 17	5 12	24 35	2 46	22 57	0 49	9 31	0 42	1 28	1 6	17 34	1 5	1 6	0 44	18 21
F 10	17 3	15 16	5 13	24 38	2 43	23 10	0 51	9 45	0 41	1 24	1 6	17 34	1 5	1 5	0 44	18 20
S 11	17 20	12 27	4 59	24 40	2 39	23 21	0 54	10 0	0 41	1 20	1 6	17 33	1 5	1 4	0 44	18 20
S 12	17 37	8 55	4 27	24 39	2 35	23 32	0 56	10 14	0 41	1 16	1 6	17 32	1 5	1 3	0 44	18 20
M13	17 53	4 49	3 40	24 37	2 29	23 43	0 59	10 29	0 40	1 12	1 7	17 32	1 5	1 2	0 44	18 19
T 14	18 9	0 21	2 39	24 32	2 21	23 52	1 1	10 43	0 40	1 8	1 7	17 31	1 5	1 1	0 44	18 19
W15	18 24	4n17	1 26	24 24	2 13	24 1	1 3	10 57	0 39	1 4	1 7	17 30	1 5	1 0	0 44	18 18
T 16	18 40	8 46	0 5	24 14	2 2	24 9	1 6	11 12	0 39	1 0	1 7	17 29	1 5	0 59	0 44	18 18
F 17	18 54	12 46	1s17	24 1	1 51	24 17	1 8	11 26	0 38	0 56	1 7	17 28	1 5	0 58	0 44	18 18
S 18	19 9	15 56	2 34	23 45	1 38	24 24	1 10	11 40	0 38	0 53	1 7	17 27	1 5	0 57	0 44	18 17
S 19	19 23	17 59	3 39	23 27	1 23	24 30	1 13	11 54	0 38	0 49	1 8	17 26	1 5	0 56	0 44	18 17
M20	19 37	18 45	4 29	23 5	1 6	24 35	1 15	12 8	0 37	0 45	1 8	17 25	1 5	0 55	0 44	18 17
T 21	19 51	18 15	5 0	22 39	0 49	24 40	1 17	12 22	0 37	0 42	1 8	17 24	1 5	0 54	0 44	18 16
W22	20 4	16 37	5 12	22 11	0 30	24 44	1 19	12 36	0 36	0 38	1 8	17 23	1 5	0 53	0 44	18 16
T 23	20 16	14 6	5 5	21 41	0 10	24 47	1 21	12 49	0 36	0 34	1 8	17 22	1 5	0 52	0 44	18 16
F 24	20 29	10 57	4 42	21 8	0n11	24 49	1 23	13 3	0 35	0 31	1 9	17 21	1 5	0 52	0 44	18 15
S 25	20 41	7 22	4 6	20 33	0 31	24 51	1 25	13 16	0 35	0 28	1 9	17 20	1 5	0 51	0 44	18 15
S 26	20 53	3 34	3 20	19 58	0 51	24 52	1 27	13 30	0 34	0 24	1 9	17 19	1 5	0 50	0 44	18 14
M27	21 4	0s18	2 25	19 24	1 11	24 52	1 29	13 43	0 34	0 21	1 9	17 18	1 5	0 49	0 44	18 14
T 28	21 15	4 6	1 25	18 50	1 29	24 51	1 31	13 56	0 33	0 17	1 9	17 17	1 5	0 48	0 44	18 14
W29	21 25	7 44	0 22	18 19	1 45	24 50	1 33	14 10	0 33	0 14	1 10	17 16	1 5	0 48	0 44	18 13
T 30	21s35	11s2	0n42	17s52	1n59	24s47	1s34	14s23	0n32	0n11	1n10	17s14	1s5	0n47	0n44	18n13

Julian Day Number = 2470476.5, Delta T = 75.12 sec

Ecliptic obliquity = 23°25'49, Nutation = 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°27'52, Lahiri = 24°34'52

ASTRODIENST EPHEMERIS for the year 2051  
geocentric

DECEMBER 2051

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 39 15	8♂43'25	12♂26	27°R31	8♂41	10♂56	2♂22	15♂29	29♂47	28°R57	9♂46	22°R50	20♂58	5♂40	24♂51	F 1
S 2	4 43 12	9°44'14	24°19	26♂48	9°55	11°36	2°30	15°33	29°49	28♂55	9°46	22♂45	20°55	5°47	24°57	S 2
S 3	4 47 8	10°45'05	6♂19	26°16	11° 9	12°16	2°38	15°37	29°50	28°54	9°47	22°39	20°51	5°54	25° 4	S 3
M 4	4 51 5	11°45'56	18°27	25°56	12°23	12°56	2°46	15°42	29°52	28°52	9°47	22°30	20°48	6° 0	25°10	M 4
T 5	4 55 2	12°46'49	0♂46	25°D47	13°37	13°36	2°54	15°46	29°54	28°50	9°47	22°20	20°45	6° 7	25°17	T 5
W 6	4 58 58	13°47'43	13°15	25°49	14°51	14°16	3° 2	15°51	29°55	28°49	9°48	22°10	20°42	6°14	25°24	W 6
T 7	5 2 55	14°48'38	25°55	26° 1	16° 5	14°57	3°10	15°55	29°57	28°47	9°48	22° 1	20°39	6°20	25°30	T 7
F 8	5 6 51	15°49'33	8♂48	26°22	17°19	15°37	3°17	16° 0	29°59	28°45	9°48	21°53	20°36	6°27	25°37	F 8
S 9	5 10 48	16°50'30	21°53	26°52	18°33	16°17	3°24	16° 5	0♂ 0	28°44	9°49	21°48	20°32	6°34	25°44	S 9
S 10	5 14 44	17°51'27	5♂13	27°29	19°47	16°57	3°32	16°10	0° 2	28°42	9°49	21°45	20°29	6°40	25°50	S 10
M 11	5 18 41	18°52'24	18°49	28°13	21° 1	17°38	3°39	16°14	0° 3	28°41	9°49	21°D44	20°26	6°47	25°57	M 11
T 12	5 22 37	19°53'23	2♂42	29° 2	22°15	18°18	3°46	16°19	0° 4	28°39	9°50	21°45	20°23	6°54	26° 4	T 12
W 13	5 26 34	20°54'21	16°53	29°57	23°29	18°58	3°53	16°24	0° 6	28°37	9°50	21°R45	20°20	7° 0	26°10	W 13
T 14	5 30 31	21°55'21	1♂20	0♂56	24°42	19°39	3°59	16°30	0° 7	28°36	9°51	21°45	20°17	7° 7	26°17	T 14
F 15	5 34 27	22°56'21	16° 2	1°59	25°56	20°19	4° 6	16°35	0° 8	28°34	9°51	21°43	20°13	7°13	26°24	F 15
S 16	5 38 24	23°57'21	0♂53	3° 6	27°10	21° 0	4°12	16°40	0° 9	28°33	9°52	21°38	20°10	7°20	26°31	S 16
S 17	5 42 20	24°58'22	15°45	4°16	28°24	21°40	4°18	16°45	0°10	28°31	9°53	21°30	20° 7	7°27	26°37	S 17
M 18	5 46 17	25°59'24	0♂30	5°28	29°37	22°21	4°24	16°51	0°11	28°30	9°53	21°20	20° 4	7°33	26°44	M 18
T 19	5 50 13	27° 0'27	15° 0	6°43	0♂51	23° 1	4°30	16°56	0°12	28°29	9°54	21°10	20° 1	7°40	26°51	T 19
W 20	5 54 10	28° 1'30	29° 8	8° 0	2° 4	23°42	4°36	17° 2	0°13	28°27	9°54	20°59	19°57	7°47	26°58	W 20
T 21	5 58 7	29° 2'34	12♂49	9°18	3°18	24°22	4°42	17° 7	0°14	28°26	9°55	20°49	19°54	7°53	27° 4	T 21
F 22	6 2 3	0♂ 3'38	26° 4	10°38	4°32	25° 3	4°47	17°13	0°15	28°24	9°56	20°42	19°51	8° 0	27°11	F 22
S 23	6 6 0	1° 4'44	8♂52	11°59	5°45	25°43	4°52	17°19	0°16	28°23	9°57	20°37	19°48	8° 7	27°18	S 23
S 24	6 9 56	2° 5'50	21°17	13°22	6°58	26°24	4°57	17°24	0°16	28°22	9°57	20°35	19°45	8°13	27°24	S 24
M 25	6 13 53	3° 6'56	3♂25	14°45	8°12	27° 5	5° 2	17°30	0°17	28°20	9°58	20°D35	19°42	8°20	27°31	M 25
T 26	6 17 49	4° 8'04	15°20	16°10	9°25	27°45	5° 7	17°36	0°18	28°19	9°59	20°R35	19°38	8°27	27°38	T 26
W 27	6 21 46	5° 9'12	27° 8	17°35	10°39	28°26	5°12	17°42	0°18	28°18	10° 0	20°35	19°35	8°33	27°44	W 27
T 28	6 25 42	6°10'20	8♂54	19° 2	11°52	29° 7	5°16	17°48	0°19	28°16	10° 1	20°33	19°32	8°40	27°51	T 28
F 29	6 29 39	7°11'30	20°44	20°28	13° 5	29°48	5°21	17°54	0°19	28°15	10° 1	20°29	19°29	8°47	27°58	F 29
S 30	6 33 36	8°12'39	2♂42	21°56	14°18	0♂29	5°25	18° 0	0°19	28°14	10° 2	20°23	19°26	8°53	28° 4	S 30
S 31	6 37 32	9♂13'49	14♂50	23♂24	15♂32	1♂ 9	5♂29	18♂ 6	0♂20	28♂13	10♂ 3	20♂13	19♂23	9♂ 0	28♂11	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
F 1	21s45	13s55	1n44	17s28	2n11	24s45	1s36	14s36	0n32	0n 8	1n10	17s13	1s 5	0n46	0n44	18n13	1s45	20s12	13s20	8s53	8s11	12s10	18s 1	5n19	
S 2	21 54	16 14	2 42	17 8	2 21	24 41	1 38	14 48	0 31	0 5	1 10	17 12	1 5	0 45	0 44	18 12	1 45	20 12	13 20	8 51	8 10	12 12	18 2	5 19	
S 3	22 3	17 52	3 33	16 54	2 29	24 37	1 39	15 1	0 31	0 2	1 10	17 11	1 5	0 45	0 45	18 12	1 45	20 11	13 19	8 48	8 8	12 13	18 2	5 19	
M 4	22 11	18 42	4 15	16 43	2 35	24 31	1 41	15 14	0 30	0s 1	1 11	17 9	1 5	0 44	0 45	18 12	1 45	20 11	13 19	8 45	8 7	12 14	18 2	5 19	
T 5	22 19	18 41	4 45	16 38	2 39	24 26	1 42	15 26	0 30	0 4	1 11	17 8	1 5	0 43	0 45	18 11	1 45	20 11	13 19	8 41	8 6	12 16	18 2	5 19	
W 6	22 27	17 45	5 3	16 36	2 41	24 19	1 43	15 39	0 29	0 7	1 11	17 6	1 5	0 43	0 45	18 11	1 45	20 10	13 18	8 38	8 5	12 17	18 3	5 19	
T 7	22 34	15 57	5 6	16 38	2 41	24 12	1 45	15 51	0 29	0 10	1 11	17 5	1 5	0 42	0 45	18 11	1 45	20 10	13 18	8 34	8 4	12 19	18 3	5 19	
F 8	22 41	13 20	4 53	16 44	2 40	24 4	1 46	16 3	0 28	0 13	1 12	17 4	1 5	0 42	0 45	18 10	1 45	20 10	13 18	8 31	8 2	12 20	18 3	5 19	
S 9	22 47	10 1	4 25	16 53	2 38	23 55	1 47	16 15	0 28	0 15	1 12	17 2	1 4	0 41	0 45	18 10	1 45	20 9	13 18	8 29	8 1	12 21	18 3	5 19	
S 10	22 53	6 8	3 43	17 4	2 35	23 45	1 48	16 27	0 27	0 18	1 12	17 1	1 4	0 40	0 45	18 10	1 45	20 9	13 17	8 28	8 0	12 23	18 3	5 19	
M11	22 58	1 52	2 47	17 18	2 31	23 35	1 49	16 39	0 27	0 21	1 12	16 59	1 4	0 40	0 45	18 9	1 45	20 8	13 17	8 28	7 59	12 24	18 3	5 19	
T 12	23 3	2n36	1 40	17 33	2 26	23 24	1 50	16 51	0 26	0 23	1 12	16 58	1 4	0 39	0 45	18 9	1 45	20 8	13 17	8 28	7 58	12 25	18 4	5 19	
W13	23 7	7 2	0 26	17 50	2 21	23 13	1 51	17 3	0 26	0 26	1 13	16 56	1 4	0 39	0 45	18 9	1 45	20 7	13 16	8 28	7 56	12 27	18 4	5 19	
T 14	23 11	11 8	0s51	18 8	2 15	23 0	1 52	17 14	0 25	0 28	1 13	16 55	1 4	0 38	0 45	18 8	1 44	20 7	13 16	8 28	7 55	12 28	18 4	5 19	
F 15	23 15	14 37	2 6	18 27	2 8	22 47	1 52	17 25	0 25	0 30	1 13	16 53	1 4	0 38	0 45	18 8	1 44	20 6	13 16	8 28	7 54	12 30	18 4	5 19	
S 16	23 18	17 11	3 13	18 47	2 1	22 34	1 53	17 37	0 24	0 33	1 13	16 51	1 4	0 38	0 45	18 8	1 44	20 6	13 16	8 26	7 53	12 31	18 4	5 19	
S 17	23 20	18 35	4 7	19 7	1 54	22 20	1 53	17 48	0 24	0 35	1 14	16 50	1 4	0 37	0 45	18 8	1 44	20 6	13 15	8 23	7 52	12 32	18 4	5 19	
M18	23 22	18 42	4 44	19 27	1 47	22 5	1 54	17 59	0 23	0 37	1 14	16 48	1 4	0 37	0 45	18 7	1 44	20 5	13 15	8 19	7 50	12 34	18 4	5 19	
T 19	23 24	17 36	5 1	19 47	1 39	21 49	1 54	18 9	0 23	0 39	1 14	16 47	1 4	0 36	0 45	18 7	1 44	20 5	13 15	8 15	7 49	12 35	18 4	5 20	
W20	23 25	15 26	5 0	20 7	1 32	21 33	1 55	18 20	0 22	0 41	1 14	16 45	1 4	0 36	0 45	18 7	1 44	20 4	13 14	8 11	7 48	12 36	18 4	5 20	
T 21	23 26	12 27	4 41	20 27	1 24	21 16	1 55	18 31	0 21	0 43	1 15	16 43	1 4	0 36	0 45	18 6	1 44	20 4	13 14	8 8	7 47	12 38	18 4	5 20	
F 22	23 26	8 56	4 8	20 47	1 16	20 59	1 55	18 41	0 21	0 45	1 15	16 41	1 4	0 36	0 45	18 6	1 44	20 3	13 14	8 5	7 46	12 39	18 4	5 20	
S 23	23 26	5 6	3 23	21 6	1 8	20 41	1 55	18 51	0 20	0 47	1 15	16 40	1 4	0 35	0 45	18 6	1 44	20 2	13 14	8 3	7 44	12 40	18 4	5 20	
S 24	23 25	1 10	2 29	21 24	1 0	20 22	1 55	19 1	0 20	0 49	1 15	16 38	1 4	0 35	0 45	18 6	1 44	20 2	13 13	8 2	7 43	12 42	18 4	5 20	
M25	23 24	2s44	1 30	21 42	0 52	20 3	1 55	19 11	0 19	0 51	1 16	16 36	1 4	0 35	0 45	18 5	1 44	20 1	13 13	8 2	7 42	12 43	18 4	5 20	
T 26	23 22	6 28	0 28	21 59	0 44	19 44	1 55	19 21	0 18	0 52	1 16	16 34	1 4	0 35	0 45	18 5	1 44	20 1	13 13	8 2	7 41	12 44	18 4	5 20	
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S 31	23s 7	18s30	4n 6	23s10	0n 6	17s58	1s52	20s 8	0n15	1s 0	1n17	16s25	1s 4	0n34	0n46	18n 4	1s44	19s58	13s12	7s54	7s35	12s51	18s 4	5n21	