



Astrodienst Ephemeris Tables for the year 2050

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 2050

geocentric

JANUARY 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 43 24	10♂44'54	18♂41	0°R 4	11♂15	17♂43	1°R41	27♂34	20°R44	23°R36	7♂32	29♂30	27♂59	17♂49	6♂35	S 1
S 2	6 47 20	11°46'03	2♂ 0	29♂11	12°30	18°21	1♂34	27°41	20♂44	23♂35	7°33	29°31	27°56	17°56	6°42	S 2
M 3	6 51 17	12°47'12	15° 2	28°28	13°46	18°59	1°27	27°48	20°43	23°34	7°34	29°33	27°53	18° 3	6°49	M 3
T 4	6 55 13	13°48'20	27°49	27°56	15° 1	19°37	1°20	27°55	20°43	23°33	7°35	29°R34	27°49	18° 9	6°56	T 4
W 5	6 59 10	14°49'28	10♂22	27°34	16°17	20°15	1°12	28° 2	20°42	23°32	7°36	29°33	27°46	18°16	7° 2	W 5
T 6	7 3 7	15°50'36	22°46	27°22	17°32	20°53	1° 5	28° 9	20°41	23°31	7°37	29°30	27°43	18°23	7° 9	T 6
F 7	7 7 3	16°51'44	5♂ 0	27°D20	18°48	21°32	0°57	28°16	20°41	23°31	7°38	29°25	27°40	18°30	7°15	F 7
S 8	7 11 0	17°52'52	17° 7	27°26	20° 3	22°10	0°50	28°23	20°40	23°30	7°40	29°18	27°37	18°36	7°22	S 8
S 9	7 14 56	18°54'00	29° 8	27°40	21°19	22°48	0°42	28°31	20°39	23°29	7°41	29° 8	27°33	18°43	7°28	S 9
M10	7 18 53	19°55'07	11♂ 5	28° 2	22°34	23°26	0°34	28°38	20°39	23°28	7°42	28°58	27°30	18°50	7°35	M10
T 11	7 22 49	20°56'14	22°58	28°30	23°50	24° 4	0°26	28°45	20°38	23°27	7°43	28°48	27°27	18°57	7°41	T 11
W12	7 26 46	21°57'21	4♂49	29° 5	25° 5	24°42	0°18	28°52	20°37	23°27	7°44	28°38	27°24	19° 3	7°47	W12
T 13	7 30 42	22°58'28	16°42	29°45	26°21	25°20	0°10	28°59	20°36	23°26	7°46	28°30	27°21	19°10	7°54	T 13
F 14	7 34 39	23°59'35	28°39	0♂30	27°36	25°58	0° 2	29° 6	20°35	23°25	7°47	28°24	27°18	19°17	8° 0	F 14
S 15	7 38 36	25° 0'41	10♂44	1°19	28°51	26°36	29♂54	29°13	20°34	23°25	7°48	28°20	27°14	19°23	8° 6	S 15
S 16	7 42 32	26° 1'48	23° 2	2°13	0♂ 7	27°14	29°46	29°20	20°33	23°24	7°49	28°D19	27°11	19°30	8°12	S 16
M17	7 46 29	27° 2'54	5♂37	3°10	1°22	27°52	29°38	29°27	20°31	23°23	7°51	28°19	27° 8	19°37	8°18	M17
T 18	7 50 25	28° 4'00	18°35	4°10	2°38	28°30	29°30	29°35	20°30	23°23	7°52	28°20	27° 5	19°44	8°24	T 18
W19	7 54 22	29° 5'06	2♂ 0	5°13	3°53	29° 8	29°22	29°42	20°29	23°22	7°53	28°R20	27° 2	19°50	8°30	W19
T 20	7 58 18	0♂ 6'12	15°53	6°19	5° 9	29°46	29°14	29°49	20°28	23°22	7°55	28°19	26°59	19°57	8°35	T 20
F 21	8 2 15	1° 7'17	0♂36	7°27	6°24	0♂24	29° 6	29°56	20°26	23°22	7°56	28°15	26°55	20° 4	8°41	F 21
S 22	8 6 11	2° 8'22	15° 5	8°37	7°39	1° 2	28°58	0♂ 3	20°25	23°21	7°57	28° 9	26°52	20°10	8°47	S 22
S 23	8 10 8	3° 9'27	0♂13	9°49	8°55	1°40	28°50	0°10	20°23	23°21	7°59	28° 0	26°49	20°17	8°52	S 23
M24	8 14 5	4°10'30	15°31	11° 3	10°10	2°18	28°42	0°17	20°22	23°20	8° 0	27°50	26°46	20°24	8°58	M24
T 25	8 18 1	5°11'33	0♂47	12°18	11°25	2°56	28°34	0°25	20°20	23°20	8° 2	27°39	26°43	20°31	9° 3	T 25
W26	8 21 58	6°12'34	15°50	13°35	12°41	3°34	28°26	0°32	20°19	23°20	8° 3	27°30	26°39	20°37	9° 9	W26
T 27	8 25 54	7°13'35	0♂31	14°53	13°56	4°12	28°18	0°39	20°17	23°20	8° 4	27°23	26°36	20°44	9°14	T 27
F 28	8 29 51	8°14'35	14°46	16°13	15°12	4°50	28°10	0°46	20°15	23°19	8° 6	27°18	26°33	20°51	9°19	F 28
S 29	8 33 47	9°15'33	28°33	17°34	16°27	5°28	28° 3	0°53	20°13	23°19	8° 7	27°16	26°30	20°58	9°24	S 29
S 30	8 37 44	10°16'30	11♂54	18°56	17°42	6° 6	27°55	1° 0	20°12	23°19	8° 9	27°D16	26°27	21° 4	9°29	S 30
M31	8 41 40	11♂17'26	24♂51	20♂19	18♂57	6♂43	27♂47	1♂ 7	20♂10	23♂19	8♂10	27°R16	26♂24	21♂11	9♂34	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	23s 0	10n27	3n23	20s18	3n 8	23s34	0s36	16s22	0n46	20n13	0n27	20s50	0s12	4n24	0n47	16n58
S 2	22 55	14 25	2 24	20 15	3 11	23 29	0 39	16 33	0 46	20 15	0 28	20 49	0 12	4 24	0 47	16 57
M 3	22 49	17 35	1 18	20 14	3 12	23 24	0 41	16 44	0 45	20 17	0 28	20 48	0 12	4 24	0 47	16 57
T 4	22 43	19 49	0 9	20 14	3 11	23 18	0 43	16 55	0 45	20 19	0 28	20 46	0 12	4 24	0 47	16 57
W 5	22 36	21 2	0s58	20 17	3 8	23 11	0 45	17 5	0 45	20 20	0 28	20 45	0 12	4 25	0 47	16 57
T 6	22 29	21 12	2 2	20 21	3 4	23 3	0 47	17 16	0 44	20 22	0 28	20 44	0 13	4 25	0 47	16 57
F 7	22 22	20 21	2 59	20 26	2 58	22 55	0 49	17 26	0 44	20 24	0 28	20 42	0 13	4 25	0 47	16 56
S 8	22 14	18 34	3 48	20 33	2 52	22 46	0 51	17 37	0 43	20 26	0 29	20 41	0 13	4 25	0 47	16 56
S 9	22 6 16	0 4	2 5	20 40	2 44	22 37	0 53	17 47	0 43	20 28	0 29	20 40	0 13	4 26	0 48	16 56
M10	21 57	12 46	4 51	20 49	2 36	22 27	0 55	17 57	0 42	20 30	0 29	20 38	0 13	4 26	0 48	16 56
T 11	21 48	9 4	5 4	20 58	2 28	22 16	0 57	18 7	0 42	20 31	0 29	20 37	0 13	4 27	0 48	16 56
W12	21 39	5 1	5 4	21 7	2 19	22 4	0 58	18 16	0 41	20 33	0 29	20 36	0 13	4 27	0 48	16 56
T 13	21 29	0 47	4 50	21 16	2 10	21 52	1 0	18 26	0 41	20 35	0 29	20 34	0 13	4 27	0 48	16 56
F 14	21 18	3s30	4 24	21 26	2 0	21 39	1 2	18 36	0 40	20 37	0 29	20 33	0 13	4 28	0 48	16 56
S 15	21 7	7 43	3 46	21 35	1 51	21 25	1 4	18 45	0 39	20 39	0 30	20 31	0 13	4 28	0 48	16 55
S 16	20 56	11 41	2 57	21 44	1 41	21 11	1 5	18 54	0 39	20 41	0 30	20 30	0 13	4 29	0 48	16 55
M17	20 45	15 15	1 58	21 52	1 31	20 56	1 7	19 3	0 38	20 42	0 30	20 28	0 13	4 29	0 48	16 55
T 18	20 32	18 11	0 52	22 0	1 22	20 40	1 8	19 12	0 38	20 44	0 30	20 27	0 13	4 30	0 48	16 55
W19	20 20	20 14	0n20	22 8	1 12	20 24	1 10	19 21	0 37	20 46	0 30	20 26	0 13	4 30	0 48	16 55
T 20	20 7	21 9	1 32	22 14	1 3	20 8	1 11	19 30	0 37	20 48	0 30	20 24	0 14	4 31	0 48	16 55
F 21	19 54	20 44	2 41	22 20	0 53	19 50	1 13	19 38	0 36	20 50	0 30	20 23	0 14	4 31	0 48	16 55
S 22	19 41	18 54	3 42	22 25	0 44	19 32	1 14	19 47	0 36	20 51	0 31	20 21	0 14	4 32	0 48	16 55
S 23	19 27	15 44	4 28	22 29	0 35	19 14	1 15	19 55	0 35	20 53	0 31	20 20	0 14	4 33	0 48	16 55
M24	19 12	11 28	4 56	22 33	0 26	18 55	1 16	20 3	0 34	20 55	0 31	20 18	0 14	4 33	0 48	16 55
T 25	18 58	6 29	5 2	22 35	0 17	18 35	1 18	20 11	0 34	20 57	0 31	20 17	0 14	4 34	0 48	16 55
W26	18 43	1 10	4 47	22 36	0 8	18 15	1 19	20 19	0 33	20 58	0 31	20 15	0 14	4 35	0 48	16 55
T 27	18 28	4n 5	4 14	22 36	0s 0	17 55	1 20	20 27	0 32	21 0	0 31	20 14	0 14	4 35	0 48	16 55
F 28	18 12	8 58	3 25	22 35	0 8	17 34	1 21	20 34	0 32	21 2	0 31	20 13	0 14	4 36	0 48	16 55
S 29	17 56	13 14	2 26	22 33	0 16	17 12	1 22	20 42	0 31	21 4	0 31	20 11	0 14	4 37	0 48	16 55
S 30	17 40	16 41	1 21	22 30	0 24	16 50	1 23	20 49	0 31	21 5	0 31	20 10	0 14	4 37	0 48	16 55
M31	17s23	19n11	0n13	22s25	0s32	16s27	1s23	20s56	0n30	21n 7	0n32	20s 8	0s14	4n38	0n48	16n55

Julian Day Number = 2469807.5, Delta T = 74.58 sec
 Ecliptic obliquity = 23°25'53, Nutation = 0°00'15, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°26'20, Lahiri = 24°33'20

ASTRODIENST EPHEMERIS for the year 2050

geocentric

FEBRUARY 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 45 37	12°18'21"	7°11'28"	21°34'31"	20°13'13"	7°21'21"	27°R39	1°14'14"	20°R 8	23°R19	8°12'12"	27°R16	26°11'20"	21°11'18"	9°27'39"	T 1
W 2	8 49 34	13°19'15"	19°50'50"	23° 8'28"	21°28'59"	7°59'27"	27°32'32"	1°21'21"	20°11'6"	23°D19	8°13'13"	27°11'13"	26°17'17"	21°24'24"	9°44'44"	W 2
T 3	8 53 30	14°20'07"	20° 1'28"	24°34'43"	22°43'37"	8°37'27"	27°25'25"	1°28'28"	20° 4'44"	23°19	8°15'15"	27° 9'9"	26°14'14"	21°31'31"	9°49'49"	T 3
F 4	8 57 27	15°20'58"	14° 5'26"	26° 0'00"	23°58'58"	9°15'27"	27°17'17"	1°35'35"	20° 2'22"	23°19	8°16'16"	27° 1'11"	26°11'11"	21°38'38"	9°53'53"	F 4
S 5	9 1 23	16°21'48"	26° 3'27"	27°28'28"	25°14'52"	9°52'27"	27°10'10"	1°42'42"	20° 0'00"	23°19	8°18'18"	26°50'50"	26° 8'8"	21°45'45"	9°58'58"	S 5
S 6	9 5 20	17°22'36"	7°12'57"	28°57'57"	26°29'30"	10°30'27"	27° 3'3"	1°49'49"	19°58'58"	23°19'19"	8°20'20"	26°37'37"	26° 5'5"	21°51'51"	10° 2'2"	S 6
M 7	9 9 16	18°23'23"	19°51'51"	0°26'26"	27°44'44"	11° 8'8"	26°56'56"	1°56'56"	19°56'56"	23°19'19"	8°21'21"	26°22'22"	26° 1'1"	21°58'58"	10° 7'7"	M 7
T 8	9 13 13	19°24'09"	1°11'43"	1°56'56"	28°59'59"	11°46'46"	26°49'49"	2° 3'3"	19°54'54"	23°20'20"	8°23'23"	26° 8'8"	25°58'58"	22° 5'5"	10°11'11"	T 8
W 9	9 17 9	20°24'54"	13°37'37"	3°28'28"	0°14'14"	12°23'23"	26°42'42"	2°10'10"	19°52'52"	23°20'20"	8°24'24"	25°53'53"	25°55'55"	22°12'12"	10°15'15"	W 9
T 10	9 21 6	21°25'37"	25°33'33"	5° 0'00"	1°30'30"	13° 1'1"	26°35'35"	2°17'17"	19°50'50"	23°20'20"	8°26'26"	25°41'41"	25°52'52"	22°18'18"	10°19'19"	T 10
F 11	9 25 3	22°26'20"	7°12'33"	6°32'32"	2°45'45"	13°39'39"	26°29'29"	2°24'24"	19°47'47"	23°20'20"	8°27'27"	25°32'32"	25°49'49"	22°25'25"	10°23'23"	F 11
S 12	9 28 59	23°27'01"	19°40'40"	8° 6'6"	4° 0'00"	14°16'16"	26°22'22"	2°31'31"	19°45'45"	23°21'21"	8°29'29"	25°26'26"	25°45'45"	22°32'32"	10°27'27"	S 12
S 13	9 32 56	24°27'41"	1°11'59"	9°40'40"	5°15'15"	14°54'54"	26°16'16"	2°38'38"	19°43'43"	23°21'21"	8°31'31"	25°22'22"	25°42'42"	22°38'38"	10°31'31"	S 13
M14	9 36 52	25°28'20"	14°32'32"	11°16'16"	6°30'30"	15°32'32"	26° 9'9"	2°44'44"	19°41'41"	23°21'21"	8°32'32"	25°21'21"	25°39'39"	22°45'45"	10°35'35"	M14
T 15	9 40 49	26°28'58"	27°24'24"	12°52'52"	7°45'45"	16° 9'9"	26° 3'3"	2°51'51"	19°38'38"	23°22'22"	8°34'34"	25°21'21"	25°36'36"	22°52'52"	10°39'39"	T 15
W16	9 44 45	27°29'35"	10°17'39"	14°29'29"	9° 0'00"	16°47'47"	25°57'57"	2°58'58"	19°36'36"	23°22'22"	8°35'35"	25°20'20"	25°33'33"	22°59'59"	10°42'42"	W16
T 17	9 48 42	28°30'11"	24°22'22"	16° 7'7"	10°15'15"	17°24'24"	25°52'52"	3° 5'5"	19°34'34"	23°23'23"	8°37'37"	25°19'19"	25°30'30"	23° 5'5"	10°46'46"	T 17
F 18	9 52 38	29°30'46"	8°13'33"	17°45'45"	11°30'30"	18° 2'2"	25°46'46"	3°11'11"	19°31'31"	23°23'23"	8°39'39"	25°15'15"	25°26'26"	23°12'12"	10°49'49"	F 18
S 19	9 56 35	0°31'19"	23°13'13"	19°25'25"	12°45'45"	18°39'39"	25°41'41"	3°18'18"	19°29'29"	23°24'24"	8°40'40"	25° 8'8"	25°23'23"	23°19'19"	10°53'53"	S 19
S 20	10 0 32	1°31'51"	8°15'15"	21° 6'6"	14° 0'00"	19°17'17"	25°35'35"	3°25'25"	19°26'26"	23°25'25"	8°42'42"	24°58'58"	25°20'20"	23°25'25"	10°56'56"	S 20
M21	10 4 28	2°32'22"	23°32'32"	22°47'47"	15°15'15"	19°54'54"	25°30'30"	3°31'31"	19°24'24"	23°25'25"	8°44'44"	24°47'47"	25°17'17"	23°32'32"	10°59'59"	M21
T 22	10 8 25	3°32'51"	8°15'53"	24°29'29"	16°30'30"	20°32'32"	25°25'25"	3°38'38"	19°21'21"	23°26'26"	8°45'45"	24°36'36"	25°14'14"	23°39'39"	11° 2'2"	T 22
W23	10 12 21	4°33'18"	24° 6'6"	26°13'13"	17°45'45"	21° 9'9"	25°20'20"	3°44'44"	19°19'19"	23°27'27"	8°47'47"	24°25'25"	25°10'10"	23°46'46"	11° 5'5"	W23
T 24	10 16 18	5°33'43"	9°17'43"	0°27'57"	19° 0'00"	21°46'46"	25°15'15"	3°51'51"	19°16'16"	23°27'27"	8°49'49"	24°17'17"	25° 7'7"	23°52'52"	11° 8'8"	T 24
F 25	10 20 14	6°34'07"	23°28'28"	29°42'42"	20°15'15"	22°24'24"	25°11'11"	3°57'57"	19°14'14"	23°28'28"	8°50'50"	24°11'11"	25° 4'4"	23°59'59"	11°10'10"	F 25
S 26	10 24 11	7°34'29"	7°12'27"	1°12'29"	21°29'29"	23° 1'1"	25° 7'7"	4° 3'3"	19°11'11"	23°29'29"	8°52'52"	24° 8'8"	25° 1'1"	24° 6'6"	11°13'13"	S 26
S 27	10 28 7	8°34'49"	20°56'56"	3°16'16"	22°44'44"	23°38'38"	25° 2'2"	4°10'10"	19° 9'9"	23°30'30"	8°54'54"	24°D 7'	24°58'58"	24°13'13"	11°16'16"	S 27
M28	10 32 4	9°35'06"	3°11'58"	5°12'44"	23°15'59"	24°16'16"	24°59'59"	4°16'16"	19°11'11"	23°31'31"	8°55'55"	24°R 7'	24°11'11"	24°19'19"	11°18'18"	M28

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
T 1	17s 6	20n40	0s54	22s19	0s39	16s 4	1s24	21s 3	0n29	21n 8	0n32	20s 7	0s14	4n39	0n48	16n55	1s44	20s 9	12s36	19s32	19s20	9n32	18s10	3n46	
W 2	16 49	21 6	1 57	22 13	0 46	15 41	1 25	21 10	0 29	21 10	0 32	20 5	0 14	4 40	0 48	16 55	1 44	20 8	12 36	19 32	19 19	9 30	18 10	3 47	
T 3	16 31	20 32	2 53	22 4	0 53	15 17	1 26	21 16	0 28	21 12	0 32	20 4	0 15	4 40	0 48	16 55	1 44	20 7	12 36	19 31	19 18	9 28	18 10	3 47	
F 4	16 14	19 2	3 41	21 55	1 0	14 53	1 26	21 23	0 27	21 13	0 32	20 2	0 15	4 41	0 48	16 55	1 44	20 7	12 36	19 29	19 17	9 26	18 10	3 48	
S 5	15 56	16 42	4 18	21 44	1 6	14 28	1 27	21 29	0 26	21 15	0 32	20 1	0 15	4 42	0 48	16 55	1 44	20 6	12 36	19 27	19 17	9 23	18 10	3 48	
S 6	15 37	13 42	4 44	21 32	1 12	14 3	1 27	21 35	0 26	21 16	0 32	19 59	0 15	4 43	0 48	16 55	1 44	20 5	12 36	19 24	19 16	9 21	18 10	3 49	
M 7	15 19	10 9	4 57	21 19	1 18	13 37	1 27	21 41	0 25	21 18	0 32	19 58	0 15	4 44	0 48	16 56	1 44	20 5	12 36	19 20	19 15	9 19	18 10	3 50	
T 8	15 0	6 13	4 58	21 5	1 23	13 12	1 28	21 47	0 24	21 19	0 32	19 56	0 15	4 45	0 49	16 56	1 44	20 4	12 36	19 17	19 14	9 17	18 10	3 50	
W 9	14 41	2 3	4 45	20 49	1 29	12 45	1 28	21 53	0 23	21 20	0 32	19 55	0 15	4 45	0 49	16 56	1 44	20 3	12 36	19 13	19 14	9 15	18 10	3 51	
T 10	14 21	2s13	4 20	20 32	1 34	12 19	1 28	21 59	0 23	21 22	0 32	19 53	0 15	4 46	0 49	16 56	1 43	20 3	12 36	19 10	19 13	9 13	18 10	3 51	
F 11	14 2	6 25	3 44	20 13	1 38	11 52	1 28	22 4	0 22	21 23	0 33	19 52	0 15	4 47	0 49	16 56	1 43	20 2	12 36	19 8	19 12	9 10	18 10	3 52	
S 12	13 42	10 25	2 56	19 53	1 43	11 25	1 28	22 9	0 21	21 24	0 33	19 50	0 15	4 48	0 49	16 56	1 43	20 1	12 36	19 7	19 11	9 8	18 10	3 53	
S 13	13 22	14 2	2 0	19 32	1 47	10 57	1 28	22 14	0 20	21 26	0 33	19 49	0 15	4 49	0 49	16 56	1 43	20 1	12 36	19 6	19 11	9 6	18 10	3 53	
M14	13 2	17 6	0 57	19 10	1 50	10 30	1 28	22 19	0 20	21 27	0 33	19 47	0 15	4 50	0 49	16 56	1 43	20 0	12 36	19 6	19 10	9 4	18 10	3 54	
T 15	12 41	19 24	0n11	18 46	1 54	10 1	1 28	22 24	0 19	21 28	0 33	19 46	0 16	4 51	0 49	16 57	1 43	19 59	12 36	19 6	19 9	9 2	18 10	3 54	
W16	12 20	20 43	1 20	18 21	1 57	9 33	1 28	22 29	0 18	21 29	0 33	19 45	0 16	4 52	0 49	16 57	1 43	19 59	12 36	19 6	19 8	8 59	18 10	3 55	
T 17	11 59	20 52	2 27	17 54	1 59	9 5	1 28	22 33	0 17	21 30	0 33	19 43	0 16	4 53	0 49	16 57	1 43	19 58	12 35	19 5	19 8	8 57	18 10	3 55	
F 18	11 38	19 43	3 27	17 26	2 2	8 36	1 27	22 37	0 16	21 31	0 33	19 42	0 16	4 54	0 49	16 57	1 43	19 57	12 35	19 4	19 7	8 55	18 10	3 56	
S 19	11 17	17 14	4 16	16 57	2 4	8 7	1 27	22 41	0 15	21 33	0 33	19 40	0 16	4 55	0 49	16 57	1 43	19 57	12 35	19 2	19 6	8 53	18 10	3 57	
S 20	10 56	13 34	4 48	16 26	2 5	7 37	1 27	22 45	0 15	21 34	0 33	19 39	0 16	4 56	0 49	16 58	1 43	19 56	12 35	19 0	19 5	8 51	18 9	3 57	
M21	10 34	8 56	5 0	15 54	2 6	7 8	1 26	22 49	0 14	21 35	0 33	19 37	0 16	4 57	0 49	16 58	1 43	19 56	12 35	18 58	19 5	8 48	18 9	3 58	
T 22	10 12	3 44	4 51	15 21	2 7	6 38	1 25	22 53	0 13	21 36	0 33	19 36	0 16	4 58	0 49	16 58	1 43	19 55	12 35	18 55	19 4	8 46	18 9	3 59	
W23	9 50	1n40	4 21	14 46	2 7	6 8	1 25	22 56	0 12	21 37	0 33	19 34	0 16	4 59	0 49	16 58	1 43	19 54	12 35	18 52	19 3	8 44	18 9	3 59	
T 24	9 28	6 51	3 34	14 10	2 7	5 38	1 24	23 0	0 11	21 37	0 33	19 33	0 16	5 0	0 49	16 59	1 43	19 54	12 35	18 50	19 2	8 42	18 9	4 0	
F 25	9 6	11 30	2 35	13 33	2 7	5 8	1 23	23 3	0 10	21 38	0 33	19 32	0 16	5 1	0 49	16 59	1 43	19 53	12 36	18 49	19 2	8 40	18 8	4 0	
S 26	8 44	15 22	1 27	12 54	2 6	4 38	1 22	23 6	0 9	21 39	0 33	19 30	0 16	5 2	0 49	16 59	1 42	19 52	12 36	18 48	19 1	8 38	18 8	4 1	
S 27	8 21	18 15	0 17	12 14	2 4	4 8	1 21	23 9	0 8	21 40	0 33	19 29	0 17	5 3	0 49	16 59	1 42	19 52	12 36	18 48	19 0	8 35	18 8	4 2	
M28	7s58	20n 5	0s52	11s33	2s 2	3s37	1s20	23s11	0n 7	21n41	0n33	19s27	0s17	5n 4	0n49	17n 0	1s42	19s51	12s36	18s48	18s59	8n33	18s 8	4n 2	

ASTRODIENST EPHEMERIS for the year 2050
geocentric

MARCH 2050

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 36 1	10 ^h 35'22	16 ^h 37	6 ^h 53	25 ^h 14	24 ^h 53	24 ^h 55	4 ^h 22	19 ^h 4	23 ^h 31	8 ^h 57	24 ^h 7	24 ^h 51	24 ^h 26	11 ^h 20	T 1
W 2	10 39 57	11 ^h 35'36	28 ^h 58	8 ^h 43	26 ^h 28	25 ^h 30	24 ^h 51	4 ^h 28	19 ^h 1	23 ^h 32	8 ^h 58	24 ^h 6	24 ^h 48	24 ^h 33	11 ^h 23	W 2
T 3	10 43 54	12 ^h 35'48	11 ^h 58	10 ^h 35	27 ^h 43	26 ^h 7	24 ^h 48	4 ^h 35	18 ^h 58	23 ^h 33	9 ^h 0	24 ^h 2	24 ^h 45	24 ^h 39	11 ^h 25	T 3
F 4	10 47 50	13 ^h 35'58	23 ^h 3	12 ^h 27	28 ^h 58	26 ^h 44	24 ^h 44	4 ^h 41	18 ^h 56	23 ^h 34	9 ^h 2	23 ^h 56	24 ^h 42	24 ^h 46	11 ^h 27	F 4
S 5	10 51 47	14 ^h 36'06	4 ^h 57	14 ^h 20	0 ^h 13	27 ^h 21	24 ^h 41	4 ^h 47	18 ^h 53	23 ^h 35	9 ^h 3	23 ^h 47	24 ^h 39	24 ^h 53	11 ^h 29	S 5
S 6	10 55 43	15 ^h 36'11	16 ^h 48	16 ^h 14	1 ^h 27	27 ^h 58	24 ^h 39	4 ^h 53	18 ^h 51	23 ^h 36	9 ^h 5	23 ^h 35	24 ^h 36	25 ^h 0	11 ^h 31	S 6
M 7	10 59 40	16 ^h 36'15	28 ^h 40	18 ^h 9	2 ^h 42	28 ^h 35	24 ^h 36	4 ^h 59	18 ^h 48	23 ^h 38	9 ^h 7	23 ^h 23	24 ^h 32	25 ^h 6	11 ^h 32	M 7
T 8	11 3 36	17 ^h 36'17	10 ^h 35	20 ^h 4	3 ^h 56	29 ^h 12	24 ^h 33	5 ^h 5	18 ^h 45	23 ^h 39	9 ^h 8	23 ^h 10	24 ^h 29	25 ^h 13	11 ^h 34	T 8
W 9	11 7 33	18 ^h 36'17	22 ^h 33	22 ^h 1	5 ^h 11	29 ^h 49	24 ^h 31	5 ^h 10	18 ^h 43	23 ^h 40	9 ^h 10	22 ^h 57	24 ^h 26	25 ^h 20	11 ^h 35	W 9
T 10	11 11 30	19 ^h 36'15	4 ^h 56	23 ^h 58	6 ^h 25	0 ^h 26	24 ^h 29	5 ^h 16	18 ^h 40	23 ^h 41	9 ^h 12	22 ^h 47	24 ^h 23	25 ^h 26	11 ^h 37	T 10
F 11	11 15 26	20 ^h 36'11	16 ^h 46	25 ^h 55	7 ^h 40	1 ^h 3	24 ^h 27	5 ^h 22	18 ^h 38	23 ^h 42	9 ^h 13	22 ^h 39	24 ^h 20	25 ^h 33	11 ^h 38	F 11
S 12	11 19 23	21 ^h 36'05	29 ^h 3	27 ^h 53	8 ^h 54	1 ^h 40	24 ^h 25	5 ^h 28	18 ^h 35	23 ^h 43	9 ^h 15	22 ^h 33	24 ^h 16	25 ^h 40	11 ^h 39	S 12
S 13	11 23 19	22 ^h 35'58	11 ^h 30	29 ^h 51	10 ^h 9	2 ^h 16	24 ^h 24	5 ^h 33	18 ^h 32	23 ^h 45	9 ^h 16	22 ^h 31	24 ^h 13	25 ^h 47	11 ^h 40	S 13
M14	11 27 16	23 ^h 35'49	24 ^h 10	1 ^h 49	11 ^h 23	2 ^h 53	24 ^h 22	5 ^h 39	18 ^h 30	23 ^h 46	9 ^h 18	22 ^h D30	24 ^h 10	25 ^h 53	11 ^h 41	M14
T 15	11 31 12	24 ^h 35'38	7 ^h 5	3 ^h 46	12 ^h 37	3 ^h 30	24 ^h 21	5 ^h 44	18 ^h 27	23 ^h 47	9 ^h 20	22 ^h 31	24 ^h 7	26 ^h 0	11 ^h 42	T 15
W16	11 35 9	25 ^h 35'26	20 ^h 19	5 ^h 43	13 ^h 52	4 ^h 6	24 ^h 20	5 ^h 50	18 ^h 24	23 ^h 49	9 ^h 21	22 ^h R31	24 ^h 4	26 ^h 7	11 ^h 43	W16
T 17	11 39 5	26 ^h 35'12	3 ^h 55	7 ^h 39	15 ^h 6	4 ^h 43	24 ^h 20	5 ^h 55	18 ^h 22	23 ^h 50	9 ^h 23	22 ^h 31	24 ^h 1	26 ^h 14	11 ^h 44	T 17
F 18	11 43 2	27 ^h 34'56	17 ^h 54	9 ^h 33	16 ^h 20	5 ^h 19	24 ^h 19	6 ^h 1	18 ^h 19	23 ^h 51	9 ^h 24	22 ^h 29	23 ^h 57	26 ^h 20	11 ^h 44	F 18
S 19	11 46 58	28 ^h 34'39	2 ^h 57	11 ^h 26	17 ^h 34	5 ^h 56	24 ^h 19	6 ^h 6	18 ^h 17	23 ^h 53	9 ^h 26	22 ^h 25	23 ^h 54	26 ^h 27	11 ^h 45	S 19
S 20	11 50 55	29 ^h 34'20	17 ^h 1	13 ^h 17	18 ^h 49	6 ^h 32	24 ^h D18	6 ^h 11	18 ^h 14	23 ^h 54	9 ^h 28	22 ^h 19	23 ^h 51	26 ^h 34	11 ^h 45	S 20
M21	11 54 52	0 ^h 33'59	2 ^h 0	15 ^h 5	20 ^h 3	7 ^h 9	24 ^h 19	6 ^h 16	18 ^h 12	23 ^h 56	9 ^h 29	22 ^h 12	23 ^h 48	26 ^h 40	11 ^h 46	M21
T 22	11 58 48	1 ^h 33'36	17 ^h 6	16 ^h 51	21 ^h 17	7 ^h 45	24 ^h 19	6 ^h 21	18 ^h 9	23 ^h 57	9 ^h 31	22 ^h 4	23 ^h 45	26 ^h 47	11 ^h 46	T 22
W23	12 2 45	2 ^h 33'11	2 ^h 9	18 ^h 32	22 ^h 31	8 ^h 21	24 ^h 19	6 ^h 26	18 ^h 7	23 ^h 59	9 ^h 32	21 ^h 56	23 ^h 41	26 ^h 54	11 ^h R46	W23
T 24	12 6 41	3 ^h 32'44	17 ^h 0	20 ^h 10	23 ^h 45	8 ^h 58	24 ^h 20	6 ^h 31	18 ^h 4	24 ^h 0	9 ^h 34	21 ^h 50	23 ^h 38	27 ^h 1	11 ^h 46	T 24
F 25	12 10 38	4 ^h 32'15	1 ^h 29	21 ^h 44	24 ^h 59	9 ^h 34	24 ^h 21	6 ^h 36	18 ^h 2	24 ^h 2	9 ^h 35	21 ^h 46	23 ^h 35	27 ^h 7	11 ^h 46	F 25
S 26	12 14 34	5 ^h 31'44	15 ^h 33	23 ^h 13	26 ^h 13	10 ^h 10	24 ^h 22	6 ^h 41	17 ^h 59	24 ^h 4	9 ^h 37	21 ^h D44	23 ^h 32	27 ^h 14	11 ^h 45	S 26
S 27	12 18 31	6 ^h 31'11	29 ^h 9	24 ^h 36	27 ^h 27	10 ^h 46	24 ^h 23	6 ^h 46	17 ^h 57	24 ^h 5	9 ^h 38	21 ^h 44	23 ^h 29	27 ^h 21	11 ^h 45	S 27
M28	12 22 27	7 ^h 30'36	12 ^h 18	25 ^h 54	28 ^h 41	11 ^h 22	24 ^h 24	6 ^h 50	17 ^h 54	24 ^h 7	9 ^h 40	21 ^h 46	23 ^h 26	27 ^h 27	11 ^h 45	M28
T 29	12 26 24	8 ^h 29'58	25 ^h 3	27 ^h 6	29 ^h 55	11 ^h 58	24 ^h 26	6 ^h 55	17 ^h 52	24 ^h 9	9 ^h 41	21 ^h 47	23 ^h 22	27 ^h 34	11 ^h 44	T 29
W30	12 30 21	9 ^h 29'18	7 ^h 58	28 ^h 13	1 ^h 8	12 ^h 33	24 ^h 27	6 ^h 59	17 ^h 49	24 ^h 10	9 ^h 43	21 ^h R48	23 ^h 19	27 ^h 41	11 ^h 43	W30
T 31	12 34 17	10 ^h 28'36	19 ^h 58	29 ^h 12	2 ^h 8	13 ^h 8	24 ^h 29	7 ^h 55	17 ^h 47	24 ^h 12	9 ^h 44	21 ^h M47	23 ^h M16	27 ^h M48	11 ^h M43	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
-----	---	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

ASTRODIENST EPHEMERIS for the year 2050

geocentric

APRIL 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 38 14	11°27'51	18°37	08° 5	38°36	13°45	24°32	7° 8	17°R45	24°14	9°46	21°R45	23°13	27°54	11°R42	F 1
S 2	12 42 10	12°27'04	13°30	0°51	4°50	14°20	24°34	7°12	17°42	24°15	9°47	21°41	23°10	28° 1	11°41	S 2
S 3	12 46 7	13°26'15	25°22	1°31	6° 4	14°56	24°36	7°17	17°40	24°17	9°48	21°36	23° 7	28° 8	11°40	S 3
M 4	12 50 3	14°25'23	7°15	2° 3	7°17	15°32	24°39	7°21	17°38	24°19	9°50	21°29	23° 3	28°15	11°39	M 4
T 5	12 54 0	15°24'29	19°13	2°28	8°31	16° 7	24°42	7°25	17°36	24°21	9°51	21°22	23° 0	28°21	11°37	T 5
W 6	12 57 56	16°23'33	1°17	2°46	9°45	16°42	24°45	7°29	17°33	24°23	9°53	21°16	22°57	28°28	11°36	W 6
T 7	13 1 53	17°22'35	13°30	2°57	10°58	17°17	24°48	7°33	17°31	24°25	9°54	21°11	22°54	28°35	11°34	T 7
F 8	13 5 50	18°21'35	25°53	3°R 1	12°12	17°53	24°52	7°37	17°29	24°27	9°55	21° 7	22°51	28°41	11°33	F 8
S 9	13 9 46	19°20'33	8°25	2°58	13°25	18°28	24°55	7°40	17°27	24°28	9°57	21° 4	22°47	28°48	11°31	S 9
S 10	13 13 43	20°19'29	21°10	2°49	14°38	19° 3	24°59	7°44	17°25	24°30	9°58	21°D 3	22°44	28°55	11°30	S 10
M 11	13 17 39	21°18'24	4° 6	2°34	15°52	19°38	25° 3	7°47	17°23	24°32	9°59	21° 4	22°41	29° 2	11°28	M 11
T 12	13 21 36	22°17'16	17°16	2°13	17° 5	20°12	25° 7	7°51	17°21	24°34	10° 1	21° 5	22°38	29° 8	11°26	T 12
W 13	13 25 32	23°16'07	0°40	1°47	18°18	20°47	25°11	7°54	17°19	24°36	10° 2	21° 7	22°35	29°15	11°24	W 13
T 14	13 29 29	24°14'56	14°21	1°16	19°32	21°22	25°15	7°58	17°17	24°38	10° 3	21° 8	22°32	29°22	11°22	T 14
F 15	13 33 25	25°13'43	28°17	0°42	20°45	21°56	25°20	8° 1	17°15	24°40	10° 4	21°R 9	22°28	29°29	11°20	F 15
S 16	13 37 22	26°12'29	12°28	0° 4	21°58	22°31	25°25	8° 4	17°13	24°42	10° 6	21° 8	22°25	29°35	11°17	S 16
S 17	13 41 19	27°11'13	26°54	29°23	23°11	23° 5	25°30	8° 7	17°11	24°44	10° 7	21° 6	22°22	29°42	11°15	S 17
M 18	13 45 15	28° 9'55	11°29	28°41	24°24	23°39	25°35	8°10	17°10	24°46	10° 8	21° 3	22°19	29°49	11°13	M 18
T 19	13 49 12	29° 8'36	26° 9	27°58	25°37	24°14	25°40	8°13	17° 8	24°48	10° 9	21° 0	22°16	29°55	11°10	T 19
W 20	13 53 8	08° 7'14	10°48	27°15	26°50	24°48	25°45	8°16	17° 6	24°50	10°10	20°57	22°13	0° 2	11° 7	W 20
T 21	13 57 5	1° 5'51	25°18	26°32	28° 3	25°22	25°51	8°18	17° 4	24°53	10°12	20°55	22° 9	0° 9	11° 5	T 21
F 22	14 1 1	2° 4'26	9°33	25°51	29°16	25°55	25°57	8°21	17° 3	24°55	10°13	20°54	22° 6	0°16	11° 2	F 22
S 23	14 4 58	3° 2'59	23°29	25°13	0°29	26°29	26° 3	8°24	17° 1	24°57	10°14	20°D53	22° 3	0°22	10°59	S 23
S 24	14 8 54	4° 1'31	7°12	24°37	1°41	27° 2	26° 9	8°26	17° 0	24°59	10°15	20°54	22° 0	0°29	10°56	S 24
M 25	14 12 51	5° 0'00	20°12	24° 4	2°54	27°36	26°15	8°28	16°58	25° 1	10°16	20°55	21°57	0°36	10°53	M 25
T 26	14 16 47	5°58'27	3° 1	23°35	4° 7	28° 9	26°21	8°31	16°57	25° 3	10°17	20°56	21°53	0°42	10°50	T 26
W 27	14 20 44	6°56'52	15°30	23°10	5°20	28°42	26°28	8°33	16°55	25° 5	10°18	20°58	21°50	0°49	10°47	W 27
T 28	14 24 41	7°55'15	27°43	22°49	6°32	29°15	26°34	8°35	16°54	25° 7	10°19	20°58	21°47	0°56	10°44	T 28
F 29	14 28 37	8°53'36	9°45	22°34	7°45	29°48	26°41	8°37	16°53	25°10	10°20	20°R59	21°44	1° 3	10°41	F 29
S 30	14 32 34	9°51'54	21°40	22°22	8°57	0°21	26°48	8°38	16°51	25°12	10°21	20°M58	21°41	1° 9	10°37	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	4n32	15n 3	4s51	14n 3	2n43	12n24	0s20	23s15	0s31	21n46	0n34	18s48	0s20	5n35	0n49	17n12
S 2	4 55	11 52	5 7	14 26	2 51	12 51	0 17	23 12	0 33	21 46	0 34	18 47	0 20	5 36	0 49	17 12
S 3	5 18	8 12	5 9	14 46	2 57	13 18	0 15	23 10	0 34	21 45	0 34	18 46	0 20	5 37	0 49	17 13
M 4	5 41	4 13	4 58	15 2	3 3	13 45	0 12	23 7	0 36	21 45	0 34	18 45	0 20	5 38	0 49	17 13
T 5	6 4	0 3	4 34	15 15	3 7	14 11	0 9	23 5	0 38	21 44	0 34	18 44	0 20	5 39	0 49	17 14
W 6	6 27	4s 9	3 58	15 24	3 10	14 37	0 7	23 2	0 39	21 44	0 34	18 43	0 20	5 40	0 49	17 14
T 7	6 49	8 15	3 10	15 30	3 12	15 3	0 4	22 59	0 41	21 43	0 34	18 42	0 20	5 40	0 49	17 15
F 8	7 12	4 2	13 15	15 31	3 12	15 28	0 1	22 56	0 42	21 42	0 34	18 41	0 20	5 41	0 49	17 15
S 9	7 34	15 23	1 9	15 29	3 11	15 53	0n 1	22 53	0 44	21 42	0 34	18 41	0 21	5 42	0 48	17 16
S 10	7 56	18 2	0n 1	15 24	3 8	16 17	0 4	22 50	0 46	21 41	0 34	18 40	0 21	5 43	0 48	17 16
M 11	8 18	19 48	1 11	15 14	3 4	16 42	0 7	22 47	0 47	21 40	0 34	18 39	0 21	5 44	0 48	17 17
T 12	8 40	20 31	2 19	15 2	2 58	17 5	0 10	22 43	0 49	21 40	0 34	18 38	0 21	5 44	0 48	17 17
W 13	9 2	20 6	3 20	14 46	2 51	17 28	0 12	22 40	0 51	21 39	0 34	18 37	0 21	5 45	0 48	17 18
T 14	9 24	18 29	4 12	14 27	2 42	17 51	0 15	22 36	0 52	21 38	0 34	18 37	0 21	5 46	0 48	17 18
F 15	9 46	15 46	4 50	14 5	2 32	18 13	0 18	22 32	0 54	21 37	0 34	18 36	0 21	5 47	0 48	17 19
S 16	10 7	12 5	5 10	13 41	2 20	18 35	0 21	22 28	0 56	21 36	0 34	18 35	0 21	5 47	0 48	17 19
S 17	10 28	7 39	5 12	13 14	2 8	18 57	0 24	22 24	0 58	21 35	0 34	18 35	0 21	5 48	0 48	17 20
M 18	10 49	2 43	4 54	12 46	1 54	19 18	0 26	22 20	1 0	21 35	0 34	18 34	0 22	5 49	0 48	17 20
T 19	11 10	2n24	4 17	12 17	1 39	19 38	0 29	22 16	1 1	21 34	0 34	18 33	0 22	5 49	0 48	17 21
W 20	11 31	7 23	3 23	11 47	1 23	19 58	0 32	22 12	1 3	21 33	0 34	18 33	0 22	5 50	0 48	17 21
T 21	11 51	11 54	2 16	11 16	1 7	20 17	0 35	22 8	1 5	21 32	0 34	18 32	0 22	5 51	0 48	17 22
F 22	12 11	15 39	1 2	10 46	0 50	20 36	0 38	22 3	1 7	21 30	0 34	18 31	0 22	5 51	0 48	17 22
S 23	12 31	18 24	0s14	10 16	0 33	20 54	0 40	21 59	1 9	21 29	0 34	18 31	0 22	5 52	0 48	17 23
S 24	12 51	20 2	1 28	9 47	0 16	21 12	0 43	21 54	1 11	21 28	0 34	18 30	0 22	5 52	0 48	17 23
M 25	13 11	20 30	2 35	9 19	0s 1	21 29	0 46	21 50	1 13	21 27	0 34	18 30	0 22	5 53	0 48	17 24
T 26	13 30	19 52	3 32	8 53	0 17	21 46	0 49	21 45	1 15	21 26	0 34	18 29	0 22	5 53	0 48	17 24
W 27	13 50	18 16	4 18	8 29	0 34	22 2	0 51	21 40	1 17	21 25	0 34	18 29	0 23	5 54	0 48	17 25
T 28	14 9	15 51	4 51	8 6	0 49	22 17	0 54	21 36	1 19	21 23	0 34	18 29	0 23	5 54	0 48	17 25
F 29	14 27	12 49	5 10	7 46	1 5	22 32	0 57	21 31	1 21	21 22	0 34	18 28	0 23	5 55	0 48	17 26
S 30	14n46	9n17	5s16	7n29	1s19	22n46	0n59	21s26	1s24	21n21	0n34	18s28	0s23	5n55	0n48	17n27

Julian Day Number = 2469897.5, Delta T = 74.65 sec

Ecliptic obliquity = 23°25'53, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°26'32, Lahiri = 24°33'33

ASTRODIENST EPHEMERIS for the year 2050

geocentric

MAY 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 30	10♌50'11	3♎32	22°R16	10♏10	0♌53	26♌55	8♌40	16°R50	25♌14	10♏22	20°R58	21♎38	1♎16	10°R34	S 1
M 2	14 40 27	11°48'26	15°27	22°D15	11°22	1°26	27° 2	8°42	16♎49	25°16	10°23	20♎56	21°34	1°23	10♌31	M 2
T 3	14 44 23	12°46'38	27°28	22°Y18	12°34	1°58	27° 9	8°43	16°48	25°18	10°24	20°55	21°31	1°29	10°27	T 3
W 4	14 48 20	13°44'49	9♌38	22°26	13°46	2°30	27°17	8°45	16°47	25°21	10°25	20°54	21°28	1°36	10°23	W 4
T 5	14 52 16	14°42'58	22° 0	22°39	14°59	3° 2	27°24	8°46	16°46	25°23	10°26	20°53	21°25	1°43	10°20	T 5
F 6	14 56 13	15°41'05	4♎36	22°57	16°11	3°34	27°32	8°48	16°45	25°25	10°26	20°53	21°22	1°50	10°16	F 6
S 7	15 00 10	16°39'10	17°26	23°19	17°23	4° 5	27°40	8°49	16°44	25°27	10°27	20°D53	21°18	1°56	10°12	S 7
S 8	15 4 6	17°37'14	0♌32	23°45	18°35	4°37	27°48	8°50	16°43	25°30	10°28	20°53	21°15	2° 3	10° 9	S 8
M 9	15 8 3	18°35'16	13°52	24°15	19°47	5° 8	27°56	8°51	16°42	25°32	10°29	20°53	21°12	2°10	10° 5	M 9
T 10	15 11 59	19°33'17	27°26	24°50	20°59	5°39	28° 4	8°52	16°41	25°34	10°30	20°53	21° 9	2°17	10° 1	T 10
W11	15 15 56	20°31'16	11♌11	25°28	22°11	6°10	28°12	8°53	16°41	25°36	10°30	20°R53	21° 6	2°23	9°57	W11
T 12	15 19 52	21°29'14	25° 7	26°11	23°22	6°41	28°21	8°53	16°40	25°38	10°31	20°53	21° 3	2°30	9°53	T 12
F 13	15 23 49	22°27'11	9♌22	26°57	24°34	7°11	28°29	8°54	16°39	25°41	10°32	20°53	20°59	2°37	9°49	F 13
S 14	15 27 45	23°25'06	23°23	27°46	25°46	7°42	28°38	8°54	16°39	25°43	10°32	20°D53	20°56	2°43	9°45	S 14
S 15	15 31 42	24°23'00	7♎38	28°39	26°57	8°12	28°47	8°55	16°38	25°45	10°33	20°53	20°53	2°50	9°41	S 15
M16	15 35 39	25°20'53	21°54	29°35	28° 9	8°42	28°56	8°55	16°38	25°48	10°34	20°53	20°50	2°57	9°37	M16
T 17	15 39 35	26°18'45	6♎9	0♌34	29°21	9°11	29° 5	8°55	16°37	25°50	10°34	20°54	20°47	3° 4	9°33	T 17
W18	15 43 32	27°16'35	20°20	1°36	0♌32	9°41	29°14	8°55	16°37	25°52	10°35	20°54	20°44	3°10	9°29	W18
T 19	15 47 28	28°14'25	4♌22	2°41	1°43	10°10	29°23	8°R55	16°37	25°54	10°35	20°55	20°40	3°17	9°24	T 19
F 20	15 51 25	29°12'13	18°12	3°49	2°55	10°39	29°32	8°55	16°37	25°57	10°36	20°R55	20°37	3°24	9°20	F 20
S 21	15 55 21	0♏10'00	1♏49	5° 0	4° 6	11° 7	29°42	8°55	16°36	25°59	10°36	20°55	20°34	3°30	9°16	S 21
S 22	15 59 18	1° 7'45	15° 8	6°14	5°17	11°36	29°51	8°55	16°36	26° 1	10°37	20°54	20°31	3°37	9°12	S 22
M23	16 3 14	2° 5'29	28°10	7°30	6°28	12° 4	0♌ 1	8°54	16°36	26° 3	10°37	20°53	20°28	3°44	9° 8	M23
T 24	16 7 11	3° 3'12	10♌55	8°49	7°39	12°32	0°11	8°54	16°D36	26° 6	10°38	20°52	20°24	3°51	9° 3	T 24
W25	16 11 8	4° 0'53	23°23	10°10	8°50	12°59	0°20	8°53	16°36	26° 8	10°38	20°50	20°21	3°57	8°59	W25
T 26	16 15 4	4°58'33	5♌36	11°34	10° 1	13°27	0°30	8°53	16°36	26°10	10°39	20°48	20°18	4° 4	8°55	T 26
F 27	16 19 1	5°56'11	17°39	13° 1	11°12	13°54	0°40	8°52	16°36	26°12	10°39	20°47	20°15	4°11	8°50	F 27
S 28	16 22 57	6°53'47	29°35	14°30	12°23	14°20	0°51	8°51	16°36	26°14	10°39	20°46	20°12	4°18	8°46	S 28
S 29	16 26 54	7°51'23	11♎28	16° 1	13°33	14°47	1° 1	8°50	16°37	26°17	10°40	20°D46	20° 9	4°24	8°42	S 29
M30	16 30 50	8°48'57	23°23	17°35	14°44	15°13	1°11	8°49	16°37	26°19	10°40	20°46	20° 5	4°31	8°37	M30
T 31	16 34 47	9♏46'29	5♌25	19♌11	15♌54	15°39	1♌21	8°48	16°37	26♌21	10♏40	20♎48	20♎ 2	4♎38	8♌33	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	15n 4	5n24	5s 9	7n14	1s33	22n59	1n 2	21s21	1s26	21n19	0n34	18s27	0s23	5n56	0n48	17n27
M 2	15 22	1 18	4 48	7 1	1 46	23 12	1 5	21 16	1 28	21 18	0 34	18 27	0 23	5 56	0 48	17 28
T 3	15 40	2s53	4 15	6 51	1 58	23 24	1 7	21 11	1 30	21 17	0 34	18 27	0 23	5 57	0 48	17 28
W 4	15 58	7 1	3 29	6 44	2 9	23 36	1 10	21 6	1 32	21 15	0 34	18 27	0 23	5 57	0 48	17 29
T 5	16 15	10 56	2 33	6 39	2 20	23 47	1 12	21 1	1 35	21 14	0 34	18 26	0 23	5 57	0 48	17 29
F 6	16 32	14 27	1 29	6 36	2 29	23 57	1 15	20 55	1 37	21 12	0 34	18 26	0 24	5 58	0 48	17 30
S 7	16 49	17 20	0 19	6 36	2 38	24 7	1 17	20 50	1 39	21 11	0 34	18 26	0 24	5 58	0 48	17 30
S 8	17 5	19 23	0n53	6 39	2 46	24 16	1 20	20 45	1 42	21 9	0 34	18 26	0 24	5 58	0 48	17 31
M 9	17 21	20 24	2 4	6 43	2 53	24 24	1 22	20 40	1 44	21 7	0 34	18 26	0 24	5 59	0 47	17 31
T 10	17 37	20 15	3 9	6 50	2 59	24 32	1 24	20 34	1 47	21 6	0 34	18 25	0 24	5 59	0 47	17 32
W11	17 52	18 54	4 4	6 59	3 4	24 38	1 27	20 29	1 49	21 4	0 34	18 25	0 24	5 59	0 47	17 32
T 12	18 8	16 25	4 46	7 11	3 8	24 45	1 29	20 24	1 52	21 2	0 34	18 25	0 24	5 59	0 47	17 33
F 13	18 23	12 57	5 10	7 24	3 12	24 50	1 31	20 18	1 54	21 1	0 34	18 25	0 24	6 0	0 47	17 34
S 14	18 37	8 44	5 17	7 39	3 15	24 55	1 33	20 13	1 57	20 59	0 34	18 25	0 25	6 0	0 47	17 34
S 15	18 52	4 0	5 4	7 55	3 17	24 59	1 35	20 8	1 59	20 57	0 34	18 25	0 25	6 0	0 47	17 35
M16	19 6	0n57	4 32	8 14	3 18	25 2	1 37	20 2	2 2	20 55	0 34	18 25	0 25	6 0	0 47	17 35
T 17	19 19	5 52	3 43	8 34	3 18	25 5	1 39	19 57	2 5	20 53	0 34	18 25	0 25	6 0	0 47	17 36
W18	19 33	10 26	2 42	8 55	3 18	25 7	1 41	19 52	2 7	20 52	0 34	18 25	0 25	6 0	0 47	17 36
T 19	19 46	14 23	1 30	9 18	3 17	25 8	1 43	19 47	2 10	20 50	0 34	18 26	0 25	6 0	0 47	17 37
F 20	19 58	17 29	0 15	9 43	3 16	25 9	1 45	19 41	2 13	20 48	0 34	18 26	0 25	6 0	0 47	17 37
S 21	20 11	19 32	1s 0	10 9	3 14	25 8	1 46	19 36	2 16	20 46	0 34	18 26	0 25	6 0	0 47	17 38
S 22	20 23	20 27	2 10	10 35	3 11	25 8	1 48	19 31	2 18	20 44	0 34	18 26	0 26	6 0	0 47	17 38
M23	20 34	20 13	3 12	11 3	3 7	25 6	1 50	19 26	2 21	20 42	0 34	18 26	0 26	6 0	0 47	17 39
T 24	20 46	18 57	4 3	11 32	3 3	25 4	1 51	19 21	2 24	20 40	0 34	18 27	0 26	6 0	0 47	17 39
W25	20 57	16 48	4 40	12 2	2 58	25 1	1 53	19 16	2 27	20 38	0 34	18 27	0 26	6 0	0 47	17 40
T 26	21 7	13 56	5 5	12 33	2 53	24 57	1 54	19 11	2 30	20 35	0 34	18 27	0 26	6 0	0 47	17 40
F 27	21 17	10 32	5 15	13 5	2 47	24 53	1 55	19 6	2 33	20 33	0 34	18 27	0 26	6 0	0 47	17 41
S 28	21 27	6 44	5 12	13 37	2 41	24 47	1 57	19 1	2 36	20 31	0 34	18 28	0 26	6 0	0 47	17 41
S 29	21 37	2 42	4 55	14 10	2 34	24 42	1 58	18 56	2 39	20 29	0 34	18 28	0 26	6 0	0 47	17 42
M30	21 46	1s27	4 26	14 43	2 27	24 35	1 59	18 51	2 42	20 27	0 34	18 29	0 27	6 0	0 47	17 42
T 31	21n55	5s35	3s45	15n17	2s19	24n28	2n 0	18s46	2s45	20n24	0n34	18s29	0s27	6n 0	0n47	17n43

Julian Day Number = 2469927.5, Delta T = 74.68 sec
 Ecliptic obliquity = 23°25'52, Nutation = 0°00'13, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°26'36, Lahiri = 24°33'37

ASTRODIENST EPHEMERIS for the year 2050
geocentric

JUNE 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 38 43	10II44'00	17♂37	20♂50	17♂5	16♂4	1♂32	8°R47	16♂38	26♂23	10♂40	20♂49	19♂59	4♂44	8°R29	W 1
T 2	16 42 40	11°41'30	0♂5	22°31	18°15	16°29	1°42	8♂45	16°38	26°25	10°41	20°51	19°56	4°51	8♂24	T 2
F 3	16 46 37	12°38'59	12°50	24°15	19°25	16°54	1°53	8°44	16°39	26°28	10°41	20°51	19°53	4°58	8°20	F 3
S 4	16 50 33	13°36'26	25°56	26°1	20°36	17°18	2°4	8°42	16°39	26°30	10°41	20°R52	19°50	5°5	8°16	S 4
S 5	16 54 30	14°33'53	9♂21	27°49	21°46	17°42	2°15	8°41	16°40	26°32	10°41	20°51	19°46	5°11	8°12	S 5
M 6	16 58 26	15°31'18	23°6	29°40	22°56	18°6	2°26	8°39	16°40	26°34	10°41	20°49	19°43	5°18	8°7	M 6
T 7	17 2 23	16°28'43	7♂7	1II33	24°6	18°30	2°36	8°37	16°41	26°36	10°41	20°45	19°40	5°25	8°3	T 7
W 8	17 6 19	17°26'07	21°20	3°28	25°15	18°52	2°48	8°35	16°42	26°38	10°41	20°42	19°37	5°31	7°59	W 8
T 9	17 10 16	18°23'30	5♂41	5°26	26°25	19°15	2°59	8°33	16°43	26°41	10°41	20°38	19°34	5°38	7°55	T 9
F 10	17 14 13	19°20'53	20°4	7°26	27°35	19°37	3°10	8°31	16°44	26°43	10°R41	20°35	19°30	5°45	7°51	F 10
S 11	17 18 9	20°18'15	4♂26	9°28	28°44	19°59	3°21	8°29	16°45	26°45	10°41	20°33	19°27	5°52	7°46	S 11
S 12	17 22 6	21°15'36	18°42	11°31	29°54	20°20	3°32	8°27	16°46	26°47	10°41	20°D32	19°24	5°58	7°42	S 12
M13	17 26 2	22°12'57	2♂49	13°37	1♂3	20°41	3°44	8°25	16°47	26°49	10°41	20°32	19°21	6°5	7°38	M13
T 14	17 29 59	23°10'18	16°47	15°44	2°12	21°1	3°55	8°22	16°48	26°51	10°41	20°33	19°18	6°12	7°34	T 14
W15	17 33 55	24°7'38	0♂35	17°52	3°21	21°21	4°7	8°20	16°49	26°53	10°41	20°35	19°15	6°18	7°30	W15
T 16	17 37 52	25°4'58	14°11	20°2	4°30	21°41	4°18	8°17	16°50	26°55	10°41	20°R36	19°11	6°25	7°26	T 16
F 17	17 41 48	26°2'18	27°36	22°13	5°39	21°59	4°30	8°15	16°51	26°57	10°41	20°36	19°8	6°32	7°22	F 17
S 18	17 45 45	26°59'37	10II48	24°24	6°48	22°18	4°42	8°12	16°52	26°59	10°41	20°34	19°5	6°39	7°18	S 18
S 19	17 49 42	27°56'56	23°48	26°36	7°57	22°36	4°54	8°9	16°54	27°1	10°41	20°31	19°2	6°45	7°14	S 19
M20	17 53 38	28°54'14	6♂35	28°48	9°5	22°53	5°5	8°6	16°55	27°3	10°40	20°26	18°59	6°52	7°11	M20
T 21	17 57 35	29°51'31	19°9	0♂59	10°14	23°10	5°17	8°3	16°57	27°5	10°40	20°19	18°56	6°59	7°7	T 21
W22	18 1 31	0♂48'48	1♂30	3°11	11°22	23°26	5°29	8°0	16°58	27°7	10°40	20°12	18°52	7°5	7°3	W22
T 23	18 5 28	1°46'05	13°40	5°21	12°31	23°42	5°41	7°57	17°0	27°9	10°40	20°5	18°49	7°12	6°59	T 23
F 24	18 9 24	2°43'21	25°40	7°31	13°39	23°57	5°53	7°54	17°1	27°11	10°39	19°59	18°46	7°19	6°56	F 24
S 25	18 13 21	3°40'36	7♂35	9°39	14°47	24°11	6°5	7°51	17°3	27°13	10°39	19°54	18°43	7°26	6°52	S 25
S 26	18 17 17	4°37'50	19°26	11°47	15°54	24°25	6°18	7°48	17°4	27°15	10°39	19°51	18°40	7°32	6°49	S 26
M27	18 21 14	5°35'04	1♂20	13°52	17°2	24°39	6°30	7°44	17°6	27°17	10°38	19°D49	18°36	7°39	6°45	M27
T 28	18 25 11	6°32'18	13°20	15°56	18°10	24°51	6°42	7°41	17°8	27°18	10°38	19°49	18°33	7°46	6°42	T 28
W29	18 29 7	7°29'31	25°32	17°59	19°17	25°3	6°54	7°37	17°10	27°20	10°37	19°50	18°30	7°52	6°39	W29
T 30	18 33 4	8♂26'43	8♂0	19♂59	20♂25	25♂15	7♂7	7♂34	17♂12	27♂22	10♂37	19♂52	18♂27	7♂59	6♂35	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	decl	lat
W 1	22n 3	9s35	2s53	15n51	2s11	24n20	2n 1	18s42	2s49	20n22	0n34	18s29	0s27	5n59	0n46	17n43	1s40	19s31	12s58	17s57	17s44	5n 8	16s55	4n51			
T 2	22 11	13 15	1 52	16 26	2 2	24 12	2 2	18 37	2 52	20 20	0 34	18 30	0 27	5 59	0 46	17 44	1 40	19 31	12 58	17 58	17 43	5 6	16 54	4 51			
F 3	22 18	16 23	0 44	17 0	1 53	24 3	2 2	18 33	2 55	20 17	0 34	18 30	0 27	5 59	0 46	17 44	1 40	19 31	12 58	17 58	17 42	5 4	16 53	4 51			
S 4	22 26	18 47	0n28	17 35	1 43	23 53	2 3	18 28	2 58	20 15	0 34	18 31	0 27	5 59	0 46	17 45	1 40	19 31	12 59	17 58	17 41	5 1	16 53	4 52			
S 5	22 32	20 12	1 40	18 9	1 33	23 42	2 4	18 24	3 2	20 13	0 34	18 31	0 27	5 58	0 46	17 45	1 40	19 32	12 59	17 58	17 40	4 59	16 52	4 52			
M 6	22 39	20 27	2 48	18 43	1 23	23 31	2 4	18 20	3 5	20 10	0 34	18 32	0 27	5 58	0 46	17 46	1 40	19 32	12 59	17 57	17 40	4 57	16 51	4 52			
T 7	22 45	19 28	3 47	19 17	1 13	23 20	2 5	18 16	3 9	20 8	0 34	18 33	0 28	5 58	0 46	17 46	1 40	19 32	13 0	17 56	17 39	4 55	16 50	4 52			
W 8	22 50	17 15	4 33	19 49	1 2	23 7	2 5	18 12	3 12	20 5	0 34	18 33	0 28	5 57	0 46	17 47	1 40	19 33	13 0	17 55	17 38	4 52	16 49	4 52			
T 9	22 55	13 57	5 2	20 22	0 51	22 55	2 5	18 8	3 15	20 3	0 34	18 34	0 28	5 57	0 46	17 47	1 40	19 33	13 0	17 54	17 37	4 50	16 49	4 52			
F 10	23 0	9 50	5 13	20 53	0 40	22 41	2 5	18 5	3 19	20 0	0 34	18 34	0 28	5 57	0 46	17 48	1 40	19 33	13 1	17 53	17 36	4 48	16 48	4 53			
S 11	23 5	5 10	5 4	21 23	0 29	22 27	2 5	18 1	3 23	19 57	0 34	18 35	0 28	5 56	0 46	17 48	1 40	19 34	13 1	17 53	17 35	4 46	16 47	4 53			
S 12	23 9	0 14	4 36	21 51	0 18	22 12	2 5	17 58	3 26	19 55	0 34	18 36	0 28	5 56	0 46	17 49	1 40	19 34	13 1	17 53	17 34	4 44	16 46	4 53			
M13	23 12	4n40	3 52	22 18	0 7	21 57	2 5	17 54	3 30	19 52	0 34	18 37	0 28	5 56	0 46	17 49	1 40	19 34	13 2	17 53	17 34	4 41	16 46	4 53			
T 14	23 15	9 16	2 54	22 44	0n 4	21 41	2 5	17 51	3 33	19 49	0 34	18 37	0 28	5 55	0 46	17 50	1 40	19 35	13 2	17 53	17 33	4 39	16 45	4 53			
W15	23 18	13 21	1 47	23 7	0 14	21 25	2 4	17 48	3 37	19 47	0 34	18 38	0 29	5 55	0 46	17 50	1 40	19 35	13 2	17 53	17 32	4 37	16 44	4 53			
T 16	23 20	16 39	0 35	23 28	0 25	21 8	2 4	17 45	3 41	19 44	0 34	18 39	0 29	5 54	0 46	17 50	1 40	19 35	13 3	17 54	17 31	4 35	16 43	4 53			
F 17	23 22	19 0	0s38	23 47	0 35	20 51	2 3	17 43	3 45	19 41	0 35	18 40	0 29	5 54	0 46	17 51	1 40	19 36	13 3	17 54	17 30	4 33	16 43	4 53			
S 18	23 24	20 17	1 48	24 3	0 44	20 33	2 3	17 40	3 48	19 39	0 35	18 40	0 29	5 53	0 46	17 51	1 40	19 36	13 4	17 53	17 29	4 30	16 42	4 53			
S 19	23 25	20 27	2 51	24 17	0 54	20 14	2 2	17 38	3 52	19 36	0 35	18 41	0 29	5 52	0 46	17 52	1 40	19 36	13 4	17 52	17 28	4 28	16 41	4 53			
M20	23 26	19 33	3 44	24 28	1 2	19 55	2 1	17 36	3 56	19 33	0 35	18 42	0 29	5 52	0 46	17 52	1 40	19 37	13 4	17 51	17 27	4 26	16 41	4 53			
T 21	23 26	17 42	4 25	24 36	1 11	19 36	2 0	17 34	4 0	19 30	0 35	18 43	0 29	5 51	0 46	17 53	1 40	19 37	13 5	17 49	17 27	4 24	16 40	4 53			
W22	23 26	15 3	4 53	24 42	1 18	19 16	1 59	17 32	4 4	19 27	0 35	18 44	0 29	5 51	0 46	17 53	1 40	19 38	13 5	17 47	17 26	4 22	16 40	4 53			
T 23	23 25	11 49	5 7	24 44	1 25	18 56	1 58	17 31	4 8	19 24	0 35	18 45	0 29	5 50	0 46	17 53	1 40	19 38	13 5	17 45	17 25	4 19	16 39	4 53			
F 24	23 24	8 8	5 7	24 44	1 31	18 35	1 57	17 30	4 12	19 21	0 35	18 46	0 30	5 49	0 46	17 54	1 40	19 39	13 6	17 44	17 24	4 17	16 38	4 53			
S 25	23 23	4 10	4 54	24 41	1 37	18 14	1 55	17 28	4 16	19 18	0 35	18 47	0 30	5 49	0 45	17 54	1 40	19 39	13 6	17 42	17 23	4 15	16 38	4 53			
S 26	23 21	0 3	4 29	24 35	1 41	17 52	1 54	17 28	4 20	19 15	0 35	18 48	0 30	5 48	0 45	17 55	1 40	19 39	13 6	17 42	17 22	4 13	16 37	4 53			
M27	23 19	4s 4	3 52	24 27	1 45	17 30	1 52	17 27	4 24	19 12	0 35	18 49	0 30	5 47	0 45	17 55	1 40	19 40	13 7	17 41	17 21	4 11	16 37	4 53			
T 28	23 16	8 5	3 4	24 16	1 48	17 8	1 50	17 26	4 28	19 9	0 35	18 50	0 30	5 47	0 45	17 55	1 40	19 40	13 7	17 41	17 20	4 8	16 36	4 53			
W29	23 13	11 51	2 8	24 3	1 51	16 45	1 49	17 26	4 32	19 6	0 35	18 51	0 30	5 46	0 45	17 56	1 40	19 41	13 7	17 42	17 20	4 6	16 36	4 53			
T 30	23n10	15s10	1s 4	23n48	1n53	16n22	1n47	17s26	4s36	19n 3	0n35	18s52	0s30	5n45	0n45	17n56	1s40	19s41	13s 8	17s42	17s19	4n 4	16s35	4n53			

ASTRODIENST EPHEMERIS for the year 2050
geocentric

JULY 2050

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 37 0	9 ⁵⁵ 23'55	20 ¹¹ 49	21 ⁵⁸ 58	21 ⁵⁸ 32	25 ²⁶ 26	7 ¹⁹ 19	7 ³⁰ R30	17 ¹⁴ 14	27 ²⁴ 24	10 ³⁶ R36	19 ⁵² R52	18 ²⁴ 24	8 ¹³ 6	6 ³² R32	F 1
S 2	18 40 57	10 ²¹ 07	4 ²⁷ 2	23 ⁵⁵ 23	22 ³⁹ 22	25 ³⁶ 25	7 ³² 7	7 ²⁶ 7	17 ¹⁶ 17	27 ²⁶ 27	10 ³⁶ 10	19 ⁵¹ 19	18 ²¹ 18	8 ¹³ 8	6 ²⁹ 6	S 2
S 3	18 44 53	11 ¹⁸ 19	17 ⁴⁰ 17	25 ⁵⁰ 25	23 ⁴⁶ 23	25 ⁴⁵ 25	7 ⁴⁴ 7	7 ²³ 7	17 ¹⁸ 17	27 ²⁷ 27	10 ³⁵ 10	19 ⁴⁸ 19	18 ¹⁷ 18	8 ¹⁹ 8	6 ²⁶ 6	S 3
M 4	18 48 50	12 ¹⁵ 30	1 ³⁴ 3	27 ⁴² 27	24 ⁵² 24	25 ⁵⁴ 25	7 ⁵⁷ 7	7 ¹⁹ 7	17 ²⁰ 17	27 ²⁹ 27	10 ³⁵ 10	19 ⁴³ 19	18 ¹⁴ 18	8 ²⁶ 8	6 ²³ 6	M 4
T 5	18 52 46	13 ¹² 42	16 ⁷ 16	29 ³³ 29	25 ⁵⁹ 25	26 ² 26	8 ⁹ 8	7 ¹⁵ 7	17 ²² 17	27 ³¹ 27	10 ³⁴ 10	19 ³⁶ 19	18 ¹¹ 18	8 ³³ 8	6 ²⁰ 6	T 5
W 6	18 56 43	14 ⁹ 53	0 ⁴⁷ 0	1 ²² 1	27 ⁵ 27	26 ⁹ 26	8 ²² 8	7 ¹¹ 7	17 ²⁴ 17	27 ³³ 27	10 ³⁴ 10	19 ²⁸ 19	18 ⁸ 18	8 ³⁹ 8	6 ¹⁷ 6	W 6
T 7	19 0 40	15 ⁷ 04	15 ³⁵ 15	3 ⁹ 3	28 ¹¹ 28	26 ¹⁶ 26	8 ³⁴ 8	7 ⁷ 7	17 ²⁶ 17	27 ³⁴ 27	10 ³³ 10	19 ²⁰ 19	18 ⁵ 18	8 ⁴⁶ 8	6 ¹⁵ 6	T 7
F 8	19 4 36	16 ⁴ 16	0 ²² 0	4 ⁵³ 4	29 ¹⁷ 29	26 ²² 26	8 ⁴⁷ 8	7 ³ 7	17 ²⁸ 17	27 ³⁶ 27	10 ³³ 10	19 ¹³ 19	18 ² 18	8 ⁵³ 8	6 ¹² 6	F 8
S 9	19 8 33	17 ¹ 27	15 ² 15	6 ³⁶ 6	0 ²² 0	26 ²⁷ 26	9 ⁰ 9	6 ⁵⁹ 6	17 ³⁰ 17	27 ³⁷ 27	10 ³² 10	19 ⁷ 19	17 ⁵⁸ 17	9 ⁰ 9	6 ⁹ 6	S 9
S 10	19 12 29	17 ⁵⁸ 39	29 ²⁹ 29	8 ¹⁶ 8	1 ²⁹ 1	26 ³² 26	9 ¹³ 9	6 ⁵⁵ 6	17 ³³ 17	27 ³⁹ 27	10 ³¹ 10	19 ⁴ 19	17 ⁵⁵ 17	9 ⁶ 9	6 ⁷ 6	S 10
M 11	19 16 26	18 ⁵⁵ 52	13 ³⁸ 13	9 ⁵⁵ 9	2 ³⁴ 2	26 ³⁵ 26	9 ²⁵ 9	6 ⁵¹ 6	17 ³⁵ 17	27 ⁴¹ 27	10 ³¹ 10	19 ^{D 2} 19	17 ⁵² 17	9 ¹³ 9	6 ⁴ 6	M 11
T 12	19 20 22	19 ⁵³ 05	27 ³⁰ 27	11 ³¹ 11	3 ⁴⁰ 3	26 ³⁸ 26	9 ³⁸ 9	6 ⁴⁷ 6	17 ³⁷ 17	27 ⁴² 27	10 ³⁰ 10	19 ² 19	17 ⁴⁹ 17	9 ²⁰ 9	6 ² 6	T 12
W 13	19 24 19	20 ⁵⁰ 19	11 ⁸ 11	13 ⁵ 13	4 ⁴⁵ 4	26 ⁴⁰ 26	9 ⁵¹ 9	6 ⁴³ 6	17 ⁴⁰ 17	27 ⁴⁴ 27	10 ²⁹ 10	19 ³ 19	17 ⁴⁶ 17	9 ²⁶ 9	6 ⁰ 6	W 13
T 14	19 28 15	21 ⁴⁷ 33	24 ²⁴ 24	14 ³⁸ 14	5 ⁵⁰ 5	26 ⁴² 26	10 ⁴ 10	6 ³⁹ 6	17 ⁴² 17	27 ⁴⁵ 27	10 ²⁸ 10	19 ^{R 3} 19	17 ⁴² 17	9 ³³ 9	5 ⁵⁸ 5	T 14
F 15	19 32 12	22 ⁴⁴ 48	7 ²⁸ 7	16 ⁸ 16	6 ⁵⁴ 6	26 ^{R 42} 26	10 ¹⁷ 10	6 ³⁴ 6	17 ⁴⁵ 17	27 ⁴⁷ 27	10 ²⁸ 10	19 ¹ 19	17 ³⁹ 17	9 ⁴⁰ 9	5 ⁵⁵ 5	F 15
S 16	19 36 9	23 ⁴² 03	20 ²⁰ 20	17 ³⁶ 17	7 ⁵⁹ 7	26 ⁴² 26	10 ³⁰ 10	6 ³⁰ 6	17 ⁴⁷ 17	27 ⁴⁸ 27	10 ²⁷ 10	18 ⁵⁸ 18	17 ³⁶ 17	9 ⁴⁷ 9	5 ⁵³ 5	S 16
S 17	19 40 5	24 ³⁹ 18	3 ⁵⁰ 3	19 ² 19	9 ³ 9	26 ⁴¹ 26	10 ⁴³ 10	6 ²⁶ 6	17 ⁵⁰ 17	27 ⁵⁰ 27	10 ²⁶ 10	18 ⁵¹ 18	17 ³³ 17	9 ⁵³ 9	5 ⁵¹ 5	S 17
M 18	19 44 2	25 ³⁶ 35	15 ³⁰ 15	20 ²⁶ 20	10 ⁷ 10	26 ³⁹ 26	10 ⁵⁶ 10	6 ²¹ 6	17 ⁵³ 17	27 ⁵¹ 27	10 ²⁵ 10	18 ⁴² 18	17 ³⁰ 17	10 ⁰ 10	5 ⁵⁰ 5	M 18
T 19	19 47 58	26 ³³ 51	27 ⁵¹ 27	21 ⁴⁸ 21	11 ¹¹ 11	26 ³⁷ 26	11 ⁹ 11	6 ¹⁷ 6	17 ⁵⁵ 17	27 ⁵² 27	10 ²⁴ 10	18 ³¹ 18	17 ²⁷ 17	10 ⁷ 10	5 ⁴⁸ 5	T 19
W 20	19 51 55	27 ³¹ 08	10 ² 10	23 ⁷ 23	12 ¹⁵ 12	26 ³⁴ 26	11 ²² 11	6 ¹³ 6	17 ⁵⁸ 17	27 ⁵⁴ 27	10 ²⁴ 10	18 ¹⁹ 18	17 ²³ 17	10 ¹³ 10	5 ⁴⁶ 5	W 20
T 21	19 55 51	28 ²⁸ 26	22 ⁵ 22	24 ²⁴ 24	13 ¹⁸ 13	26 ²⁹ 26	11 ³⁵ 11	6 ⁸ 6	18 ¹ 18	27 ⁵⁵ 27	10 ²³ 10	18 ⁶ 18	17 ²⁰ 17	10 ²⁰ 10	5 ⁴⁴ 5	T 21
F 22	19 59 48	29 ²⁵ 43	4 ¹ 4	25 ³⁹ 25	14 ²¹ 14	26 ²⁵ 26	11 ⁴⁸ 11	6 ⁴ 6	18 ³ 18	27 ⁵⁶ 27	10 ²² 10	17 ⁵⁵ 17	17 ¹⁷ 17	10 ²⁷ 10	5 ⁴³ 5	F 22
S 23	20 3 44	0 ²³ 01	15 ⁵³ 15	26 ⁵² 26	15 ²⁴ 15	26 ¹⁹ 26	12 ¹ 12	5 ⁵⁹ 5	18 ⁶ 18	27 ⁵⁸ 27	10 ²¹ 10	17 ⁴⁵ 17	17 ¹⁴ 17	10 ³⁴ 10	5 ⁴² 5	S 23
S 24	20 7 41	1 ²⁰ 20	27 ⁴³ 27	28 ² 28	16 ²⁷ 16	26 ¹³ 26	12 ¹⁴ 12	5 ⁵⁵ 5	18 ⁹ 18	27 ⁵⁹ 27	10 ²⁰ 10	17 ³⁸ 17	17 ¹¹ 17	10 ⁴⁰ 10	5 ⁴⁰ 5	S 24
M 25	20 11 38	2 ¹⁷ 38	9 ²⁵ 9	29 ⁹ 29	17 ²⁹ 17	26 ⁶ 26	12 ²⁷ 12	5 ⁵¹ 5	18 ¹² 18	28 ⁰ 28	10 ¹⁹ 10	17 ³⁴ 17	17 ⁸ 17	10 ⁴⁷ 10	5 ³⁹ 5	M 25
T 26	20 15 34	3 ¹⁴ 58	21 ³² 21	3 ¹⁴ 58	18 ³¹ 18	25 ⁵⁸ 25	12 ⁴⁰ 12	5 ⁴⁶ 5	18 ¹⁵ 18	28 ¹ 28	10 ¹⁸ 10	17 ³² 17	17 ⁴ 17	10 ⁵⁴ 10	5 ³⁸ 5	T 26
W 27	20 19 31	4 ¹² 17	3 ¹¹ 3	1 ¹⁷ 1	19 ³³ 19	25 ⁴⁹ 25	12 ⁵³ 12	5 ⁴² 5	18 ¹⁸ 18	28 ² 28	10 ¹⁷ 10	17 ^{D 31} 17	17 ¹ 17	11 ⁰ 11	5 ³⁷ 5	W 27
T 28	20 23 27	5 ⁹ 37	16 ⁷ 16	2 ¹⁶ 2	20 ³⁴ 20	25 ⁴⁰ 25	13 ⁶ 13	5 ³⁷ 5	18 ²¹ 18	28 ³ 28	10 ¹⁶ 10	17 ^{R 31} 17	16 ⁵⁸ 16	11 ⁷ 11	5 ³⁶ 5	T 28
F 29	20 27 24	6 ⁶ 58	28 ⁵⁴ 28	3 ¹³ 3	21 ³⁵ 21	25 ³¹ 25	13 ²⁰ 13	5 ³³ 5	18 ²⁴ 18	28 ⁴ 28	10 ¹⁵ 10	17 ³¹ 17	16 ⁵⁵ 16	11 ¹⁴ 11	5 ³⁵ 5	F 29
S 30	20 31 20	7 ⁴ 19	12 ²⁷ 12	4 ⁶ 4	22 ³⁶ 22	25 ²⁰ 25	13 ³³ 13	5 ²⁸ 5	18 ²⁷ 18	28 ⁶ 28	10 ¹⁴ 10	17 ²⁹ 17	16 ⁵² 16	11 ²¹ 11	5 ³⁴ 5	S 30
S 31	20 35 17	8 ² 140	25 ²⁷ 25	4 ⁵⁷ 4	23 ³⁷ 23	25 ⁹ 25	13 ⁴⁶ 13	5 ²⁴ 5	18 ³⁰ 18	28 ⁷ 28	10 ¹³ 10	17 ²⁵ 17	16 ⁴⁸ 16	11 ²⁷ 11	5 ³⁴ 5	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	23n 6	17s52	0n 5	23n31	1n54	15n58	1n45	17s26	4s40	19n 0	0n35	18s53	0s30	5n44	0n45	17n57	1s40	19s42	13s 8	17s42	17s18	4n 2	16s35	4n53	
S 2	23 2	19 43	1 16	23 11	1 54	15 34	1 42	17 27	4 45	18 57	0 35	18 54	0 30	5 44	0 45	17 57	1 40	19 42	13 8	17 42	17 17	4 0	16 35	4 53	
S 3	22 57	20 28	2 24	22 50	1 54	15 10	1 40	17 27	4 49	18 54	0 35	18 55	0 31	5 43	0 45	17 57	1 40	19 43	13 9	17 41	17 16	3 57	16 34	4 53	
M 4	22 52	20 0	3 25	22 27	1 52	14 46	1 38	17 28	4 53	18 50	0 35	18 56	0 31	5 42	0 45	17 58	1 40	19 43	13 9	17 40	17 15	3 55	16 34	4 52	
T 5	22 47	18 14	4 15	22 2	1 51	14 21	1 35	17 29	4 57	18 47	0 35	18 57	0 31	5 41	0 45	17 58	1 41	19 44	13 9	17 38	17 14	3 53	16 33	4 52	
W 6	22 41	15 16	4 49	21 37	1 48	13 56	1 33	17 31	5 1	18 44	0 35	18 58	0 31	5 40	0 45	17 58	1 41	19 44	13 9	17 36	17 13	3 51	16 33	4 52	
T 7	22 34	11 18	5 5	21 9	1 45	13 30	1 30	17 32	5 5	18 41	0 35	18 59	0 31	5 39	0 45	17 59	1 41	19 45	13 10	17 33	17 13	3 49	16 33	4 52	
F 8	22 28	6 40	5 0	20 41	1 42	13 5	1 27	17 34	5 10	18 37	0 35	19 0	0 31	5 38	0 45	17 59	1 41	19 45	13 10	17 31	17 12	3 46	16 32	4 52	
S 9	22 21	1 40	4 35	20 11	1 37	12 39	1 24	17 36	5 14	18 34	0 35	19 1	0 31	5 37	0 45	17 59	1 41	19 46	13 10	17 30	17 11	3 44	16 32	4 52	
S 10	22 13	3n21	3 53	19 41	1 33	12 12	1 21	17 39	5 18	18 31	0 35	19 3	0 31	5 37	0 45	18 0	1 41	19 46	13 11	17 29	17 10	3 42	16 32	4 52	
M 11	22 6	8 6	2 57	19 10	1 27	11 46	1 18	17 41	5 22	18 27	0 35	19 4	0 31	5 36	0 45	18 0	1 41	19 47	13 11	17 28	17 9	3 40	16 31	4 52	
T 12	21 58	12 20	1 52	18 38	1 22	11 19	1 14	17 44	5 26	18 24	0 35	19 5	0 32	5 35	0 45	18 0	1 41	19 47	13 11	17 28	17 8	3 38	16 31	4 51	
W 13	21 49	15 49	0 42	18 5	1 15	10 52	1 11	17 47	5 30	18 21	0 36	19 6	0 32	5 34	0 45	18 1	1 41	19 48	13 12	17 29	17 7	3 35	16 31	4 51	
T 14	21 40	18 24	0s29	17 32	1 9	10 25	1 7	17 51	5 34	18 17	0 36	19 7	0 32	5 33	0 45	18 1	1 41	19 49	13 12	17 29	17 6	3 33	16 31	4 51	
F 15	21 31	19 58	1 37	16 58	1 1	9 58	1 4	17 54	5 38	18 14	0 36	19 8	0 32	5 32	0 45	18 1	1 41	19 49	13 12	17 28	17 5	3 31	16 31	4 51	
S 16	21 21	20 27	2 38	16 24	0 54	9 30	1 0	17 58	5 42	18 10	0 36	19 9	0 32	5 31	0 45	18 1	1 41	19 50	13 12	17 27	17 5	3 29	16 30	4 51	
S 17	21 11	19 52	3 31	15 50	0 46	9 2	0 56	18 2	5 46	18 7	0 36	19 11	0 32	5 30	0 45	18 2	1 41	19 50	13 13	17 25	17 4	3 27	16 30	4 51	
M 18	21 1	18 20	4 13	15 15	0 37	8 34	0 52	18 6	5 50	18 3	0 36	19 12	0 32	5 29	0 45	18 2	1 41	19 51	13 13	17 23	17 3	3 25	16 30	4 50	
T 19	20 50	15 58	4 43	14 41	0 28	8 6	0 48	18 11	5 54	18 0	0 36	19 13	0 32	5 27	0 45	18 2	1 41	19 51	13 13	17 20	17 2	3 22	16 30	4 50	
W 20	20 39	12 56	4 58	14 6	0 19	7 38	0 44	18 15	5 58	17 56	0 36	19 14	0 32	5 26	0 45	18 2	1 41	19 52	13 13	17 16	17 1	3 20	16 30	4 50	
T 21	20 28	9 24	5 1	13 32	0 9	7 10	0 39	18 20	6 1	17 53	0 36	19 15	0 32	5 25	0 45	18 3	1 41	19 52	13 14	17 13	17 0	3 18	16 30	4 50	
F 22	20 16	5 31	4 50	12 57	0s 1	6 42	0 35	18 25	6 5	17 49	0 36	19 17	0 33	5 24	0 45	18 3	1 41	19 53	13 14	17 10	16 59	3 16	16 30	4 50	
S 23	20 4	1 28	4 27	12 23	0 11	6 13	0 30	18 30	6 9	17 46	0 36	19 18	0 33	5 23	0 44	18 3	1 41	19 54	13 14	17 7	16 58	3 14	16 30	4 49	
S 24	19 51	2s38	3 52	11 49	0 22	5 44	0 25	18 36	6 12	17 42	0 36	19 19	0 33	5 22	0 44	18 3	1 41	19 54	13 15	17 5	16 57	3 11	16 30	4 49	
M 25	19 38	6 39	3 7	11 15	0 32	5 16	0 21	18 41	6 15	17 38	0 36	19 20	0 33	5 21	0 44	18 4	1 41	19 55	13 15	17 4	16 57	3 9	16 30	4 49	
T 26	19 25	10 27	2 13	10 42	0 43	4 47	0 16	18 47	6 18	17 35	0 36	19 21	0 33	5 20	0 44	18 4	1 41	19 55	13 15	17 3	16 56	3 7	16 30	4 49	
W 27	19 12	13 53	1 13	10 10	0 55	4 18	0 11	18 53	6 22	17 31	0 36	19 22	0 33	5 18	0 44	18 4	1 41	19 56	13 15	17 3	16 55	3 5	16 30	4 48	
T 28	18 58	16 46	0 7	9 38	1 6	3 49	0 5	18 59	6 25	17 27	0 36	19 24	0 33	5 17	0 44	18 4	1 42	19 57	13 15	17 3	16 54	3 3	16 30	4 48	
F 29	18 44	18 56	1n 0	9 7	1 18	3 20	0 10	19 5	6 27	17 24	0 36	19 25	0 33	5 16	0 44	18 4	1 42	19 57	13 16	17 3	16 53	3 0	16 30	4 48	
S 30	18 30	20 9	2 6	8 36	1 30	2 51	0s 5	19 11	6 30	17 20	0 36	19 26	0 33	5 15	0 44	18 5	1 42	19 58	13 16	17 3	16 52	2 58	16 30	4 48	
S 31	18n15	20s14	3n 8	8n 7	1s42	2n22	0s11	19s17	6s33	17n16	0n37	19s27	0s33	5n14	0n44	18n 5	1s42	19s58	13s16	17s 1	16s51	2n56	16s30	4n47	

ASTRODIENST EPHEMERIS for the year 2050

geocentric

AUGUST 2050

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 39 13	8♂59°02	9♂58	5♂44	24♂37	24°R58	13♂59	5°R19	18♂33	28♂8	10°R12	17°R18	16♂45	11♂34	5°R33	M 1
T 2	20 43 10	9°56'25	24°34	6°27	25°37	24°R46	14°12	5°R15	18°36	28°9	10°R11	17°R9	16°42	11°41	5°R33	T 2
W 3	20 47 7	10°53'49	9°31	7°7	26°36	24°33	14°26	5°10	18°39	28°10	10°10	16°59	16°39	11°47	5°32	W 3
T 4	20 51 3	11°51'13	24°39	7°43	27°35	24°20	14°39	5°6	18°43	28°10	10°9	16°48	16°36	11°54	5°32	T 4
F 5	20 55 0	12°48'38	9°48	8°15	28°34	24°7	14°52	5°2	18°46	28°11	10°8	16°38	16°33	12°1	5°32	F 5
S 6	20 58 56	13°46'05	24°48	8°43	29°33	23°53	15°5	4°57	18°49	28°12	10°7	16°30	16°29	12°8	5°D32	S 6
S 7	21 2 53	14°43'32	9°31	9°6	0♂31	23°38	15°18	4°53	18°52	28°13	10°6	16°25	16°26	12°14	5°32	S 7
M 8	21 6 49	15°41'01	23°51	9°25	1°28	23°24	15°32	4°49	18°56	28°14	10°4	16°22	16°23	12°21	5°32	M 8
T 9	21 10 46	16°38'31	7♂47	9°39	2°25	23°9	15°45	4°44	18°59	28°15	10°3	16°21	16°20	12°28	5°32	T 9
W10	21 14 42	17°36'03	21°20	9°49	3°22	22°53	15°58	4°40	19°2	28°15	10°2	16°21	16°17	12°34	5°32	W10
T 11	21 18 39	18°33'36	4♂32	9°R53	4°18	22°38	16°11	4°36	19°6	28°16	10°1	16°21	16°13	12°41	5°33	T 11
F 12	21 22 36	19°31'10	17°25	9°51	5°14	22°22	16°24	4°31	19°9	28°17	10°0	16°19	16°10	12°48	5°33	F 12
S 13	21 26 32	20°28'46	0♂3	9°45	6°9	22°6	16°38	4°27	19°12	28°17	9°59	16°14	16°7	12°55	5°34	S 13
S 14	21 30 29	21°26'23	12°29	9°32	7°4	21°50	16°51	4°23	19°16	28°18	9°58	16°7	16°4	13°1	5°34	S 14
M15	21 34 25	22°24'01	24°45	9°15	7°58	21°35	17°4	4°19	19°19	28°18	9°56	15°57	16°1	13°8	5°35	M15
T 16	21 38 22	23°21'41	6♂53	8°52	8°52	21°19	17°17	4°15	19°23	28°19	9°55	15°44	15°58	13°15	5°36	T 16
W17	21 42 18	24°19'22	18°55	8°23	9°45	21°3	17°30	4°11	19°26	28°19	9°54	15°31	15°54	13°21	5°37	W17
T 18	21 46 15	25°17'05	0♂52	7°50	10°38	20°47	17°44	4°7	19°30	28°20	9°53	15°17	15°51	13°28	5°38	T 18
F 19	21 50 11	26°14'48	12°44	7°11	11°30	20°31	17°57	4°3	19°33	28°20	9°52	15°4	15°48	13°35	5°39	F 19
S 20	21 54 8	27°12'33	24°34	6°28	12°21	20°16	18°10	3°59	19°37	28°21	9°50	14°53	15°45	13°41	5°41	S 20
S 21	21 58 5	28°10'19	6♂23	5°42	13°12	20°1	18°23	3°55	19°40	28°21	9°49	14°45	15°42	13°48	5°42	S 21
M22	22 2 1	29°8'06	18°15	4°52	14°2	19°46	18°36	3°51	19°44	28°21	9°48	14°40	15°39	13°55	5°43	M22
T 23	22 5 58	0♂5'55	0♂14	4°0	14°52	19°32	18°49	3°47	19°48	28°22	9°47	14°37	15°35	14°2	5°45	T 23
W24	22 9 54	1°3'44	12°22	3°7	15°40	19°17	19°2	3°44	19°51	28°22	9°45	14°D36	15°32	14°8	5°47	W24
T 25	22 13 51	2°1'35	24°45	2°14	16°28	19°4	19°15	3°40	19°55	28°22	9°44	14°36	15°29	14°15	5°48	T 25
F 26	22 17 47	2°59'27	7♂28	1°21	17°16	18°51	19°28	3°36	19°58	28°23	9°43	14°R36	15°26	14°22	5°50	F 26
S 27	22 21 44	3°57'21	20°36	0°30	18°2	18°38	19°41	3°33	20°2	28°23	9°42	14°35	15°23	14°28	5°52	S 27
S 28	22 25 40	4°55'15	4♂12	29♂42	18°47	18°26	19°54	3°29	20°6	28°23	9°40	14°32	15°19	14°35	5°54	S 28
M29	22 29 37	5°53'11	18°18	28°58	19°32	18°14	20°7	3°26	20°10	28°23	9°39	14°27	15°16	14°42	5°56	M29
T 30	22 33 34	6°51'09	2♂53	28°20	20°16	18°3	20°20	3°22	20°13	28°23	9°38	14°19	15°13	14°49	5°59	T 30
W31	22 37 30	7♂49'07	17♂51	27♂47	20♂59	17♂53	20♂33	3♂19	20♂17	28♂23	9♂37	14♂10	15♂10	14♂55	6♂1	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n 0	19s 4	4n 0	7n38	1s54	1n53	0s16	19s24	6s35	17n13	0n37	19s28	0s33	5n12	0n44	18n 5
T 2	17 45	16 39	4 38	7 11	2 6	1 24	0 22	19 30	6 37	17 9	0 37	19 29	0 34	5 11	0 44	18 5
W 3	17 30	13 4	4 58	6 45	2 19	0 55	0 28	19 36	6 40	17 5	0 37	19 31	0 34	5 10	0 44	18 5
T 4	17 14	8 37	4 58	6 50	2 31	0 26	0 34	19 42	6 42	17 1	0 37	19 32	0 34	5 9	0 44	18 5
F 5	16 58	3 37	4 37	5 27	2 43	0s 2	0 40	19 49	6 43	16 57	0 37	19 33	0 34	5 7	0 44	18 6
S 6	16 41	1n33	3 57	5 35	2 55	0 31	0 46	19 55	6 45	16 54	0 37	19 34	0 34	5 6	0 44	18 6
S 7	16 25	6 33	3 1	5 16	3 7	1 0	0 52	20 1	6 47	16 50	0 37	19 35	0 34	5 5	0 44	18 6
M 8	16 8	11 3	1 56	4 58	3 19	1 29	0 59	20 7	6 48	16 46	0 37	19 36	0 34	5 3	0 44	18 6
T 9	15 51	14 49	0 45	4 42	3 30	1 57	1 5	20 14	6 49	16 42	0 37	19 37	0 34	5 2	0 44	18 6
W10	15 33	17 40	0s26	4 28	3 41	2 26	1 12	20 20	6 50	16 38	0 37	19 39	0 34	5 1	0 44	18 6
T 11	15 16	19 29	1 35	4 17	3 52	2 54	1 18	20 25	6 51	16 34	0 37	19 40	0 34	4 59	0 44	18 6
F 12	14 58	20 15	2 36	4 8	4 2	3 23	1 25	20 31	6 51	16 31	0 37	19 41	0 34	4 58	0 44	18 6
S 13	14 39	19 57	3 29	4 2	4 11	3 51	1 32	20 37	6 51	16 27	0 38	19 42	0 34	4 57	0 44	18 6
S 14	14 21	18 41	4 11	3 59	4 19	4 19	1 39	20 42	6 52	16 23	0 38	19 43	0 34	4 55	0 44	18 7
M15	14 2	16 34	4 40	3 59	4 27	4 47	1 46	20 47	6 51	16 19	0 38	19 44	0 34	4 54	0 44	18 7
T 16	13 44	13 45	4 56	4 2	4 33	5 15	1 53	20 52	6 51	16 15	0 38	19 45	0 35	4 53	0 44	18 7
W17	13 25	10 24	4 59	4 7	4 38	5 42	2 0	20 57	6 51	16 11	0 38	19 46	0 35	4 51	0 44	18 7
T 18	13 5	6 39	4 49	4 16	4 42	6 10	2 8	21 2	6 50	16 7	0 38	19 47	0 35	4 50	0 44	18 7
F 19	12 46	2 40	4 26	4 28	4 44	6 37	2 15	21 6	6 49	16 3	0 38	19 48	0 35	4 48	0 44	18 7
S 20	12 26	1s24	3 52	4 44	4 44	7 4	2 23	21 10	6 48	15 59	0 38	19 49	0 35	4 47	0 44	18 7
S 21	12 6	5 25	3 8	5 2	4 43	7 31	2 30	21 13	6 47	15 55	0 38	19 50	0 35	4 46	0 44	18 7
M22	11 46	9 14	2 15	5 22	4 40	7 58	2 38	21 17	6 45	15 51	0 38	19 51	0 35	4 44	0 44	18 7
T 23	11 26	12 44	1 16	5 46	4 35	8 24	2 46	21 20	6 43	15 47	0 38	19 52	0 35	4 43	0 44	18 7
W24	11 6	15 44	0 12	6 11	4 28	8 50	2 53	21 23	6 42	15 43	0 39	19 53	0 35	4 41	0 44	18 7
T 25	10 45	18 5	0n54	6 38	4 19	9 16	3 1	21 25	6 40	15 39	0 39	19 54	0 35	4 40	0 44	18 7
F 26	10 24	19 36	1 58	7 7	4 9	9 41	3 9	21 27	6 37	15 35	0 39	19 55	0 35	4 38	0 44	18 7
S 27	10 3	20 7	2 59	7 36	3 57	10 7	3 17	21 29	6 35	15 31	0 39	19 56	0 35	4 37	0 44	18 7
S 28	9 42	19 30	3 52	8 6	3 43	10 32	3 26	21 31	6 33	15 27	0 39	19 56	0 35	4 35	0 44	18 7
M29	9 21	17 41	4 32	8 35	3 27	10 56	3 34	21 32	6 30	15 23	0 39	19 57	0 35	4 34	0 44	18 7
T 30	9 0	14 41	4 57	9 4	3 11	11 20	3 42	21 33	6 27	15 19	0 39	19 58	0 35	4 33	0 44	18 7
W31	8n38	10s40	5n 2	9n31	2s54	11s44	3s50	21s33	6s24	15n15	0n39	19s59	0s35	4n31	0n44	18n 7

Julian Day Number = 2470019.5, Delta T = 74.75 sec
 Ecliptic obliquity = 23°25'51, Nutation = 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°26'49, Lahiri = 24°33'49

ASTRODIENST EPHEMERIS for the year 2050

geocentric

SEPTEMBER 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 41 27	8♎47'07	3♎ 6	27°R21	21♎40	17°R43	20♎46	3°R16	20♎21	28°R23	9°R35	14°R 0	15♎ 7	15♎ 2	6♎ 3	T 1
F 2	22 45 23	9°45'08	18°25	27♎ 2	22°21	17°34	20°59	3°13	20°24	28♎23	9♎34	13♎51	15° 4	15° 9	6° 6	F 2
S 3	22 49 20	10°43'12	3♎38	26°52	23° 1	17°26	21°12	3°10	20°28	28°23	9°33	13°44	15° 0	15°15	6° 8	S 3
S 4	22 53 16	11°41'17	18°35	26°D49	23°39	17°18	21°24	3° 7	20°32	28°23	9°31	13°39	14°57	15°22	6°11	S 4
M 5	22 57 13	12°39'23	3♎ 8	26°55	24°17	17°11	21°37	3° 4	20°36	28°23	9°30	13°37	14°54	15°29	6°14	M 5
T 6	23 1 9	13°37'32	17°15	27°10	24°53	17° 5	21°50	3° 1	20°39	28°23	9°29	13°D37	14°51	15°35	6°17	T 6
W 7	23 5 6	14°35'43	0♎54	27°34	25°28	16°59	22° 3	2°58	20°43	28°22	9°28	13°37	14°48	15°42	6°20	W 7
T 8	23 9 2	15°33'56	14° 8	28° 6	26° 2	16°55	22°15	2°56	20°47	28°22	9°26	13°R38	14°45	15°49	6°23	T 8
F 9	23 12 59	16°32'11	27° 0	28°46	26°34	16°51	22°28	2°53	20°51	28°22	9°25	13°37	14°41	15°56	6°26	F 9
S 10	23 16 56	17°30'28	9♎33	29°35	27° 5	16°47	22°40	2°50	20°54	28°22	9°24	13°35	14°38	16° 2	6°29	S 10
S 11	23 20 52	18°28'47	21°52	0♎31	27°35	16°45	22°53	2°48	20°58	28°21	9°23	13°30	14°35	16° 9	6°32	S 11
M12	23 24 49	19°27'08	3♎59	1°35	28° 3	16°43	23° 5	2°46	21° 2	28°21	9°21	13°23	14°32	16°16	6°36	M12
T 13	23 28 45	20°25'31	16° 0	2°45	28°29	16°D43	23°18	2°43	21° 6	28°21	9°20	13°15	14°29	16°22	6°39	T 13
W14	23 32 42	21°23'56	27°55	4° 2	28°54	16°43	23°30	2°41	21°10	28°20	9°19	13° 5	14°25	16°29	6°43	W14
T 15	23 36 38	22°22'23	9♎46	5°24	29°18	16°44	23°43	2°39	21°13	28°20	9°18	12°55	14°22	16°36	6°46	T 15
F 16	23 40 35	23°20'52	21°37	6°51	29°39	16°45	23°55	2°37	21°17	28°19	9°16	12°45	14°19	16°42	6°50	F 16
S 17	23 44 31	24°19'22	3♎28	8°23	29°59	16°48	24° 7	2°35	21°21	28°19	9°15	12°38	14°16	16°49	6°54	S 17
S 18	23 48 28	25°17'55	15°21	9°59	0♎17	16°51	24°19	2°33	21°25	28°18	9°14	12°32	14°13	16°56	6°58	S 18
M19	23 52 25	26°16'29	27°18	11°38	0°33	16°55	24°32	2°31	21°28	28°18	9°13	12°29	14°10	17° 3	7° 2	M19
T 20	23 56 21	27°15'05	9♎22	13°20	0°47	17° 0	24°44	2°30	21°32	28°17	9°12	12°D27	14° 6	17° 9	7° 6	T 20
W21	0 0 18	28°13'43	21°35	15° 4	0°59	17° 6	24°56	2°28	21°36	28°16	9°10	12°27	14° 3	17°16	7°10	W21
T 22	0 4 14	29°12'22	4♎ 2	16°50	1° 9	17°12	25° 8	2°27	21°40	28°16	9° 9	12°29	14° 0	17°23	7°14	T 22
F 23	0 8 11	0♎11'04	16°46	18°37	1°17	17°19	25°20	2°25	21°44	28°15	9° 8	12°30	13°57	17°29	7°18	F 23
S 24	0 12 7	1° 9'47	29°51	20°26	1°23	17°27	25°31	2°24	21°47	28°14	9° 7	12°R31	13°54	17°36	7°23	S 24
S 25	0 16 4	2° 8'32	13♎20	22°15	1°26	17°36	25°43	2°23	21°51	28°13	9° 6	12°30	13°50	17°43	7°27	S 25
M26	0 20 0	3° 7'18	27°16	24° 5	1°R27	17°46	25°55	2°22	21°55	28°13	9° 5	12°28	13°47	17°49	7°32	M26
T 27	0 23 57	4° 6'06	11°38	25°55	1°26	17°56	26° 7	2°21	21°58	28°12	9° 3	12°24	13°44	17°56	7°36	T 27
W28	0 27 54	5° 4'56	26°23	27°45	1°22	18° 7	26°18	2°20	22° 2	28°11	9° 2	12°19	13°41	18° 3	7°41	W28
T 29	0 31 50	6° 3'47	11°27	29°35	1°16	18°19	26°30	2°19	22° 6	28°10	9° 1	12°14	13°38	18°10	7°46	T 29
F 30	0 35 47	7♎ 2'40	26°39	1♎24	1♎ 7	18°31	26♎41	2°18	22♎10	28♎ 9	9♎ 0	12♎ 9	13♎35	18♎16	7♎50	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n16	5s54	4n47	9n57	2s35	12s 8	3s59	21s33	6s21	15n11	0n39	20s 0	0s35	4n30	0n44	18n 7	1s43
F 2	7 55	0 44	4 10	10 21	2 17	12 31	4 7	21 33	6 18	15 7	0 39	20 0	0 35	4 28	0 44	18 7	1 43
S 3	7 33	4n27	3 16	10 42	1 58	12 54	4 16	21 32	6 14	15 3	0 40	20 1	0 36	4 27	0 44	18 7	1 44
S 4	7 11	9 16	2 9	11 1	1 39	13 16	4 24	21 32	6 11	14 59	0 40	20 2	0 36	4 25	0 44	18 7	1 44
M 5	6 48	13 26	0 56	11 17	1 20	13 38	4 33	21 30	6 7	14 55	0 40	20 3	0 36	4 24	0 44	18 6	1 44
T 6	6 26	16 40	0s19	11 29	1 2	13 59	4 41	21 29	6 4	14 51	0 40	20 3	0 36	4 22	0 44	18 6	1 44
W 7	6 4	18 51	1 31	11 38	0 44	14 20	4 50	21 27	6 0	14 47	0 40	20 4	0 36	4 21	0 44	18 6	1 44
T 8	5 41	19 55	2 36	11 43	0 27	14 41	4 58	21 25	5 56	14 43	0 40	20 5	0 36	4 19	0 44	18 6	1 44
F 9	5 19	19 53	3 31	11 44	0 10	15 0	5 7	21 22	5 52	14 39	0 40	20 5	0 36	4 18	0 44	18 6	1 44
S 10	4 56	18 52	4 14	11 42	0n 6	15 20	5 15	21 20	5 48	14 35	0 40	20 6	0 36	4 16	0 44	18 6	1 44
S 11	4 33	16 59	4 44	11 36	0 20	15 39	5 24	21 16	5 44	14 31	0 40	20 7	0 36	4 15	0 44	18 6	1 44
M12	4 10	14 22	5 2	11 26	0 34	15 57	5 32	21 13	5 40	14 27	0 41	20 7	0 36	4 13	0 44	18 6	1 44
T 13	3 48	11 10	5 5	11 16	0 46	16 14	5 41	21 9	5 36	14 23	0 41	20 8	0 36	4 12	0 44	18 6	1 44
W14	3 25	7 34	4 56	10 55	0 58	16 31	5 49	21 5	5 32	14 19	0 41	20 8	0 36	4 10	0 44	18 5	1 44
T 15	3 2	3 41	4 33	10 35	1 8	16 47	5 58	21 1	5 28	14 15	0 41	20 9	0 36	4 9	0 44	18 5	1 44
F 16	2 38	0s20	3 59	10 11	1 17	17 3	6 6	20 56	5 23	14 11	0 41	20 9	0 36	4 7	0 44	18 5	1 44
S 17	2 15	4 21	3 14	9 44	1 25	17 17	6 14	20 51	5 19	14 7	0 41	20 10	0 36	4 6	0 44	18 5	1 44
S 18	1 52	8 13	2 21	9 14	1 32	17 31	6 22	20 46	5 15	14 4	0 41	20 10	0 36	4 4	0 44	18 5	1 44
M19	1 29	11 46	1 21	8 42	1 37	17 44	6 30	20 41	5 10	14 0	0 41	20 11	0 36	4 3	0 44	18 5	1 44
T 20	1 6	14 52	0 17	8 7	1 42	17 57	6 38	20 35	5 6	13 56	0 42	20 11	0 36	4 1	0 44	18 4	1 44
W21	0 42	17 22	0n49	7 30	1 46	18 8	6 45	20 29	5 1	13 52	0 42	20 11	0 36	4 0	0 44	18 4	1 44
T 22	0 19	19 4	1 54	6 52	1 48	18 18	6 53	20 23	4 57	13 48	0 42	20 12	0 36	3 58	0 44	18 4	1 45
F 23	0s 4	19 52	2 55	6 11	1 50	18 28	7 0	20 17	4 53	13 44	0 42	20 12	0 36	3 57	0 44	18 4	1 45
S 24	0 28	19 37	3 49	5 29	1 51	18 36	7 7	20 10	4 48	13 40	0 42	20 12	0 36	3 55	0 44	18 4	1 45
S 25	0 51	18 15	4 32	4 46	1 51	18 43	7 13	20 3	4 44	13 36	0 42	20 13	0 36	3 54	0 44	18 3	1 45
M26	1 14	15 48	5 0	4 3	1 51	18 50	7 19	19 56	4 39	13 32	0 42	20 13	0 36	3 53	0 44	18 3	1 45
T 27	1 38	12 18	5 11	3 18	1 49	18 55	7 25	19 48	4 35	13 29	0 43	20 13	0 36	3 51	0 44	18 3	1 45
W28	2 1	7 59	5 2	2 32	1 47	18 58	7 31	19 41	4 31	13 25	0 43	20 13	0 36	3 50	0 44	18 3	1 45
T 29	2 24	3 5	4 32	1 46	1 45	19 1	7 36	19 33	4 26	13 21	0 43	20 14	0 36	3 48	0 44	18 2	1 45
F 30	2s48	2n 4	3n42	1n 0	1n42	19s 2	7s40	19s25	4s22	13n17	0n43	20s14	0s36	3n47	0n44	18n 2	1s45

Julian Day Number = 2470050.5, Delta T = 74.78 sec

Ecliptic obliquity = 23°25'52, Nutation = 0°00'13, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°26'53, Lahiri = 24°33'54

ASTRODIENST EPHEMERIS for the year 2050
geocentric

OCTOBER 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 39 43	8♌ 1'35	11♏51	3♌13	0♏R56	18♌44	26♏53	2°R18	22♏13	28°R 8	8°R59	12°R 5	13♌31	18♏23	7♏55	S 1
S 2	0 43 40	9° 0'33	26°51	5° 2	0♏43	18°58	27° 4	2♌17	22°17	28♏ 7	8♏58	12♌ 3	13°28	18°30	8° 0	S 2
M 3	0 47 36	9°59'32	11♏32	6°50	0°27	19°12	27°15	2°17	22°21	28° 6	8°57	12°D 2	13°25	18°36	8° 5	M 3
T 4	0 51 33	10°58'34	25°48	8°37	0° 9	19°28	27°27	2°17	22°24	28° 5	8°56	12° 2	13°22	18°43	8°10	T 4
W 5	0 55 29	11°57'38	9♏36	10°24	29♌49	19°43	27°38	2°16	22°28	28° 4	8°55	12° 4	13°19	18°50	8°15	W 5
T 6	0 59 26	12°56'44	22°58	12°10	29°26	19°59	27°49	2°16	22°31	28° 3	8°54	12° 5	13°16	18°56	8°20	T 6
F 7	1 3 22	13°55'53	5♏54	13°55	29° 2	20°16	28° 0	2°D16	22°35	28° 2	8°53	12° 6	13°12	19° 3	8°26	F 7
S 8	1 7 19	14°55'03	18°30	15°39	28°35	20°34	28°11	2°16	22°39	28° 1	8°52	12°R 7	13° 9	19°10	8°31	S 8
S 9	1 11 16	15°54'17	0♏48	17°23	28° 7	20°52	28°21	2°17	22°42	28° 0	8°51	12° 6	13° 6	19°17	8°36	S 9
M10	1 15 12	16°53'32	12°53	19° 6	27°36	21°11	28°32	2°17	22°46	27°59	8°50	12° 3	13° 3	19°23	8°42	M10
T 11	1 19 9	17°52'50	24°50	20°48	27° 5	21°30	28°43	2°17	22°49	27°58	8°49	12° 0	13° 0	19°30	8°47	T 11
W12	1 23 5	18°52'09	6♏41	22°29	26°32	21°50	28°53	2°18	22°53	27°56	8°48	11°57	12°56	19°37	8°53	W12
T 13	1 27 2	19°51'32	18°32	24°10	25°57	22°10	29° 4	2°18	22°56	27°55	8°47	11°53	12°53	19°43	8°59	T 13
F 14	1 30 58	20°50'56	0♌23	25°50	25°22	22°31	29°14	2°19	23° 0	27°54	8°46	11°49	12°50	19°50	9° 4	F 14
S 15	1 34 55	21°50'22	12°18	27°29	24°46	22°52	29°24	2°20	23° 3	27°53	8°45	11°46	12°47	19°57	9°10	S 15
S 16	1 38 51	22°49'51	24°18	29° 7	24°10	23°14	29°35	2°21	23° 7	27°51	8°45	11°44	12°44	20° 3	9°16	S 16
M17	1 42 48	23°49'21	6♏25	0♏45	23°33	23°36	29°45	2°22	23°10	27°50	8°44	11°D43	12°41	20°10	9°22	M17
T 18	1 46 45	24°48'54	18°42	2°22	22°57	23°59	29°55	2°23	23°13	27°49	8°43	11°43	12°37	20°17	9°28	T 18
W19	1 50 41	25°48'28	1♏ 8	3°58	22°20	24°22	0♏ 5	2°24	23°17	27°47	8°42	11°44	12°34	20°23	9°34	W19
T 20	1 54 38	26°48'04	13°47	5°34	21°44	24°46	0°14	2°25	23°20	27°46	8°41	11°45	12°31	20°30	9°40	T 20
F 21	1 58 34	27°47'42	26°41	7° 9	21° 9	25°10	0°24	2°27	23°23	27°44	8°41	11°47	12°28	20°37	9°46	F 21
S 22	2 2 31	28°47'22	9♏51	8°44	20°35	25°35	0°34	2°28	23°27	27°43	8°40	11°48	12°25	20°44	9°52	S 22
S 23	2 6 27	29°47'04	23°20	10°18	20° 2	26° 0	0°43	2°30	23°30	27°42	8°39	11°48	12°22	20°50	9°58	S 23
M24	2 10 24	0♏46'47	7♌ 8	11°51	19°30	26°26	0°53	2°32	23°33	27°40	8°38	11°R48	12°18	20°57	10° 4	M24
T 25	2 14 20	1°46'32	21°16	13°24	19° 0	26°52	1° 2	2°33	23°36	27°39	8°38	11°48	12°15	21° 4	10°10	T 25
W26	2 18 17	2°46'19	5♏42	14°57	18°31	27°18	1°11	2°35	23°39	27°37	8°37	11°47	12°12	21°10	10°17	W26
T 27	2 22 14	3°46'07	20°23	16°28	18° 5	27°45	1°20	2°37	23°43	27°36	8°37	11°46	12° 9	21°17	10°23	T 27
F 28	2 26 10	4°45'57	5♏14	18° 0	17°40	28°12	1°29	2°39	23°46	27°34	8°36	11°45	12° 6	21°24	10°29	F 28
S 29	2 30 7	5°45'48	20° 7	19°30	17°17	28°39	1°38	2°42	23°49	27°33	8°35	11°44	12° 2	21°30	10°36	S 29
S 30	2 34 3	6°45'42	4♏54	21° 0	16°57	29° 7	1°46	2°44	23°52	27°31	8°35	11°D44	11°59	21°37	10°42	S 30
M31	2 38 0	7♏45'37	19♏28	22♏30	16♌39	29♌35	1♏55	2♌46	23♏55	27♏29	8♏34	11♌44	11♌56	21♏44	10♌49	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	
S 1	3s11	7n 6	2n37	0n14	1n39	19s 2	7s44	19s17	4s18	13n13	0n43	20s14	0s36	3n45	0n44	18n 2	1s45	20s30	13s19	15s27	15s54	0n42	17s 9	4n31	
S 2	3 34	11 37	1 22	0s33	1 35	19 0	7 48	19 8	4 13	13 10	0 43	20 14	0 36	3 44	0 44	18 2	1 45	20 30	13 19	15 27	15 53	0 40	17 10	4 31	
M 3	3 57	15 20	0 3	1 20	1 30	18 58	7 51	19 0	4 9	13 6	0 43	20 14	0 36	3 42	0 44	18 1	1 45	20 30	13 19	15 26	15 52	0 38	17 11	4 31	
T 4	4 21	17 59	1s15	2 6	1 26	18 53	7 53	18 51	4 5	13 2	0 44	20 14	0 37	3 41	0 44	18 1	1 45	20 31	13 19	15 27	15 51	0 36	17 12	4 31	
W 5	4 44	19 29	2 25	2 53	1 21	18 47	7 55	18 42	4 1	12 59	0 44	20 14	0 37	3 40	0 44	18 1	1 45	20 31	13 19	15 27	15 50	0 34	17 13	4 31	
T 6	5 7	19 49	3 26	3 39	1 16	18 40	7 56	18 33	3 56	12 55	0 44	20 14	0 37	3 38	0 44	18 1	1 45	20 31	13 18	15 27	15 49	0 31	17 14	4 31	
F 7	5 30	19 5	4 14	4 25	1 10	18 31	7 56	18 23	3 52	12 51	0 44	20 14	0 37	3 37	0 44	18 0	1 45	20 31	13 18	15 28	15 48	0 29	17 15	4 30	
S 8	5 53	17 24	4 48	5 10	1 4	18 21	7 55	18 14	3 48	12 48	0 44	20 14	0 37	3 35	0 44	18 0	1 45	20 32	13 18	15 28	15 47	0 27	17 16	4 30	
S 9	6 15	14 57	5 8	5 55	0 58	18 9	7 54	18 4	3 44	12 44	0 44	20 14	0 37	3 34	0 44	18 0	1 45	20 32	13 18	15 28	15 46	0 25	17 17	4 30	
M10	6 38	11 55	5 14	6 40	0 52	17 56	7 51	17 54	3 40	12 41	0 45	20 14	0 37	3 33	0 44	18 0	1 45	20 32	13 18	15 27	15 45	0 23	17 18	4 30	
T 11	7 1	8 26	5 6	7 24	0 46	17 42	7 48	17 44	3 36	12 37	0 45	20 14	0 37	3 31	0 44	17 59	1 45	20 32	13 18	15 26	15 44	0 21	17 19	4 30	
W12	7 23	4 38	4 45	8 8	0 40	17 26	7 44	17 34	3 32	12 33	0 45	20 14	0 37	3 30	0 44	17 59	1 45	20 32	13 17	15 25	15 43	0 19	17 20	4 30	
T 13	7 46	0 40	4 13	8 51	0 33	17 8	7 39	17 24	3 28	12 30	0 45	20 14	0 37	3 28	0 44	17 59	1 45	20 33	13 17	15 24	15 42	0 17	17 21	4 29	
F 14	8 8	3s20	3 29	9 34	0 26	16 50	7 34	17 13	3 24	12 26	0 45	20 14	0 37	3 27	0 44	17 58	1 45	20 33	13 17	15 22	15 41	0 14	17 22	4 29	
S 15	8 30	7 14	2 35	10 16	0 20	16 31	7 27	17 2	3 20	12 23	0 45	20 14	0 37	3 26	0 44	17 58	1 45	20 33	13 17	15 22	15 40	0 12	17 23	4 29	
S 16	8 53	10 53	1 35	10 57	0 13	16 10	7 19	16 51	3 16	12 20	0 46	20 14	0 37	3 24	0 44	17 58	1 46	20 33	13 17	15 21	15 39	0 10	17 24	4 29	
M17	9 15	14 7	0 29	11 38	0 6	15 49	7 11	16 40	3 12	12 16	0 46	20 13	0 37	3 23	0 44	17 57	1 46	20 33	13 16	15 21	15 38	0 8	17 25	4 29	
T 18	9 36	16 46	0n38	12 18	0s 1	15 26	7 2	16 29	3 9	12 13	0 46	20 13	0 37	3 22	0 44	17 57	1 46	20 33	13 16	15 21	15 37	0 6	17 26	4 29	
W19	9 58	18 40	1 45	12 57	0 8	15 3	6 52	16 18	3 5	12 10	0 46	20 13	0 37	3 20	0 44	17 57	1 46	20 33	13 16	15 21	15 36	0 4	17 27	4 29	
T 20	10 20	19 40	2 48	13 36	0 14	14 40	6 41	16 6	3 1	12 6	0 46	20 13	0 37	3 19	0 44	17 56	1 46	20 34	13 16	15 21	15 35	0 2	17 28	4 28	
F 21	10 41	19 39	3 44	14 14	0 21	14 16	6 30	15 55	2 58	12 3	0 46	20 12	0 37	3 18	0 44	17 56	1 46	20 34	13 16	15 22	15 34	0s 0	17 29	4 28	
S 22	11 2	18 35	4 29	14 51	0 28	13 52	6 18	15 43	2 54	12 0	0 47	20 12	0 37	3 17	0 44	17 56	1 46	20 34	13 15	15 22	15 33	0 3	17 30	4 28	
S 23	11 24	16 28	5 1	15 27	0 35	13 28	6 6	15 31	2 50	11 57	0 47	20 12	0 37	3 15	0 44	17 55	1 46	20 34	13 15	15 22	15 32	0 5	17 31	4 28	
M24	11 44	13 23	5 16	16 3	0 42	13 4	5 53	15 19	2 47	11 54	0 47	20 11	0 37	3 14	0 44	17 55	1 46	20 34	13 15	15 22	15 31	0 7	17 32	4 28	
T 25	12 5	9 28	5 13	16 37	0 48	12 40	5 39	15 7	2 43	11 50	0 47	20 11	0 37	3 13	0 44	17 55	1 46	20 34	13 15	15 22	15 30	0 9	17 33	4 28	
W26	12 26	4 55	4 50	17 11	0 55	12 16	5 25	14 54	2 40	11 47	0 47	20 10	0 37	3 12	0 44	17 54	1 46	20 34	13 15	15 22	15 30	0 11	17 34	4 28	
T 27	12 46	0 0	4 8	17 44	1 1	11 53	5 11	14 42	2 36	11 44	0 48	20 10	0 37	3 10	0 44	17 54	1 46	20 34	13 14	15 22	15 29	0 13	17 35	4 28	
F 28	13 6	4n58	3 9	18 16	1 8	11 30	4 57	14 29	2 33	11 41	0 48	20 10	0 37	3 9	0 44	17 54	1 46	20 34	13 14	15 21	15 28	0 15	17 36	4 28	
S 29	13 26	9 40	1 57	18 47	1 14	11 8	4 42	14 17	2 30	11 38	0 48	20 9	0 37	3 8	0 44	17 53	1 46	20 34	13 14	15 21	15 27	0 17	17 37	4 28	
S 30	13 46	13 45	0 38	19 18	1 20	10 46	4 27	14 4	2 27	11 35	0 48	20 9	0 37	3 7	0 44	17 53	1 46	20 34	13 14	15 21	15 26	0 19	17 38	4 28	
M31	14s 6	16n54	0s43	19s47	1s26	10s26	4s13	13s51	2s23	11n33	0n48	20s 8	0s37	3n 6	0n44	17n52	1s46	20s34	13s13	15s21	15s25	0s22	17s39	4n28	

ASTRODIENST EPHEMERIS for the year 2050

geocentric

NOVEMBER 2050

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 41 56	8♉45°35'	3♊44	23♈59	16°R24	0♈ 4	2♈ 3	2♈49	23♈58	27°R28	8°R34	11♈44	11♈53	21♈50	10♈55	T 1
W 2	2 45 53	9°45'34"	17°36'	25°28'	16♈11	0°33'	2°12'	2°51'	24° 1'	27♈26	8♈33	11°45'	11°50'	21°57'	11° 2'	W 2
T 3	2 49 49	10°45'36"	1♉ 3	26°56'	16° 0'	1° 2'	2°20'	2°54'	24° 4'	27°25'	8°33'	11°45'	11°47'	22° 4'	11° 9'	T 3
F 4	2 53 46	11°45'40"	14° 6'	28°23'	15°52'	1°31'	2°28'	2°57'	24° 6'	27°23'	8°32'	11°R45	11°43'	22°11'	11°15'	F 4
S 5	2 57 43	12°45'45"	26°47'	29°50'	15°46'	2° 1'	2°36'	3° 0'	24° 9'	27°21'	8°32'	11°45'	11°40'	22°17'	11°22'	S 5
S 6	3 1 39	13°45'53"	9♈ 8	1♉16	15°43'	2°31'	2°44'	3° 3'	24°12'	27°20'	8°31'	11°D45	11°37'	22°24'	11°29'	S 6
M 7	3 5 36	14°46'03"	21°15'	2°42'	15°D43	3° 1'	2°52'	3° 6'	24°15'	27°18'	8°31'	11°45'	11°34'	22°31'	11°35'	M 7
T 8	3 9 32	15°46'15"	3♈11	4° 7'	15°44'	3°32'	2°59'	3° 9'	24°17'	27°17'	8°31'	11°45'	11°31'	22°37'	11°42'	T 8
W 9	3 13 29	16°46'29"	15° 2'	5°31'	15°48'	4° 2'	3° 7'	3°12'	24°20'	27°15'	8°30'	11°45'	11°27'	22°44'	11°49'	W 9
T 10	3 17 25	17°46'45"	26°53'	6°55'	15°55'	4°34'	3°14'	3°15'	24°23'	27°13'	8°30'	11°46'	11°24'	22°51'	11°56'	T 10
F 11	3 21 22	18°47'03"	8♈46	8°17'	16° 4'	5° 5'	3°21'	3°19'	24°25'	27°12'	8°30'	11°47'	11°21'	22°57'	12° 3'	F 11
S 12	3 25 18	19°47'22"	20°45'	9°39'	16°15'	5°37'	3°28'	3°22'	24°28'	27°10'	8°29'	11°47'	11°18'	23° 4'	12°10'	S 12
S 13	3 29 15	20°47'44"	2♈54	11° 0'	16°28'	6° 8'	3°35'	3°26'	24°30'	27° 8'	8°29'	11°48'	11°15'	23°11'	12°17'	S 13
M14	3 33 12	21°48'07"	15°15'	12°19'	16°43'	6°41'	3°41'	3°29'	24°33'	27° 6'	8°29'	11°R48	11°12'	23°17'	12°24'	M14
T 15	3 37 8	22°48'32"	27°48'	13°37'	17° 0'	7°13'	3°48'	3°33'	24°35'	27° 5'	8°29'	11°48'	11° 8'	23°24'	12°31'	T 15
W16	3 41 5	23°48'59"	10♈35	14°54'	17°20'	7°46'	3°54'	3°37'	24°38'	27° 3'	8°29'	11°47'	11° 5'	23°31'	12°38'	W16
T 17	3 45 1	24°49'28"	23°35'	16° 9'	17°41'	8°18'	4° 1'	3°41'	24°40'	27° 1'	8°29'	11°45'	11° 2'	23°37'	12°45'	T 17
F 18	3 48 58	25°49'57"	6♈49	17°23'	18° 4'	8°51'	4° 7'	3°45'	24°42'	27° 0'	8°28'	11°43'	10°59'	23°44'	12°52'	F 18
S 19	3 52 54	26°50'29"	20°16'	18°34'	18°29'	9°25'	4°13'	3°49'	24°45'	26°58'	8°28'	11°41'	10°56'	23°51'	12°59'	S 19
S 20	3 56 51	27°51'01"	3♈56	19°43'	18°56'	9°58'	4°19'	3°53'	24°47'	26°56'	8°28'	11°39'	10°53'	23°58'	13° 6'	S 20
M21	4 0 47	28°51'35"	17°47'	20°50'	19°24'	10°32'	4°24'	3°57'	24°49'	26°55'	8°28'	11°38'	10°49'	24° 4'	13°13'	M21
T 22	4 4 44	29°52'09"	1♈49	21°53'	19°54'	11° 6'	4°30'	4° 1'	24°51'	26°53'	8°D28	11°D38	10°46'	24°11'	13°20'	T 22
W23	4 8 41	0♈52°45'	16° 0'	22°53'	20°25'	11°40'	4°35'	4° 6'	24°53'	26°51'	8°28'	11°38'	10°43'	24°18'	13°27'	W23
T 24	4 12 37	1°53'22"	0♈19	23°50'	20°58'	12°14'	4°40'	4°10'	24°55'	26°50'	8°28'	11°40'	10°40'	24°24'	13°34'	T 24
F 25	4 16 34	2°54'00"	14°42'	24°41'	21°33'	12°48'	4°45'	4°15'	24°57'	26°48'	8°28'	11°41'	10°37'	24°31'	13°42'	F 25
S 26	4 20 30	3°54'40"	29° 7'	25°28'	22° 9'	13°23'	4°50'	4°19'	24°59'	26°46'	8°28'	11°42'	10°33'	24°38'	13°49'	S 26
S 27	4 24 27	4°55'20"	13♈28	26°10'	22°46'	13°58'	4°55'	4°24'	25° 1'	26°45'	8°29'	11°R43	10°30'	24°44'	13°56'	S 27
M28	4 28 23	5°56'02"	27°42'	26°45'	23°24'	14°32'	4°59'	4°29'	25° 3'	26°43'	8°29'	11°42'	10°27'	24°51'	14° 3'	M28
T 29	4 32 20	6°56'45"	11♈42	27°13'	24° 4'	15° 8'	5° 3'	4°34'	25° 4'	26°41'	8°29'	11°40'	10°24'	24°58'	14°10'	T 29
W30	4 36 16	7♈57°30'	25♈26	27♈33	24♈45	15♈43	5♈ 7	4♈39	25♈ 6	26♈40	8♈29	11♈36	10♈21	25♈ 4	14♈18	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	14s25	18n56	1s59	20s15	1s32	10s 6	3s58	13s38	2s20	11n30	0n49	20s 7	0s37	3n 5	0n44	17n52
W 2	14 44	19 46	3 6	20 43	1 38	9 47	3 43	13 25	2 17	11 27	0 49	20 7	0 37	3 3	0 44	17 52
T 3	15 3	19 24	4 1	21 9	1 44	9 29	3 28	13 11	2 14	11 24	0 49	20 6	0 37	3 2	0 44	17 51
F 4	15 21	18 1	4 42	21 34	1 49	9 13	3 13	12 58	2 11	11 21	0 49	20 6	0 37	3 1	0 44	17 51
S 5	15 40	15 46	5 7	21 58	1 55	8 57	2 59	12 44	2 8	11 19	0 49	20 5	0 37	3 0	0 44	17 51
S 6	15 58	12 52	5 17	22 21	2 0	8 43	2 44	12 31	2 5	11 16	0 50	20 4	0 37	2 59	0 44	17 50
M 7	16 16	9 28	5 13	22 43	2 4	8 29	2 30	12 17	2 2	11 14	0 50	20 4	0 37	2 58	0 44	17 50
T 8	16 33	5 44	4 56	23 4	2 9	8 17	2 16	12 3	1 59	11 11	0 50	20 3	0 37	2 57	0 44	17 49
W 9	16 51	1 48	4 26	23 24	2 13	8 6	2 2	11 49	1 56	11 9	0 50	20 2	0 37	2 56	0 45	17 49
T 10	17 8	2s11	3 44	23 43	2 17	7 56	1 49	11 35	1 53	11 6	0 50	20 1	0 37	2 55	0 45	17 49
F 11	17 24	6 8	2 53	24 0	2 21	7 47	1 36	11 21	1 50	11 4	0 51	20 1	0 37	2 54	0 45	17 48
S 12	17 41	9 52	1 54	24 16	2 24	7 40	1 23	11 7	1 47	11 1	0 51	20 0	0 37	2 53	0 45	17 48
S 13	17 57	13 15	0 49	24 31	2 27	7 33	1 10	10 52	1 44	10 59	0 51	19 59	0 37	2 52	0 45	17 47
M14	18 13	16 6	0n19	24 44	2 30	7 28	0 58	10 38	1 42	10 57	0 51	19 58	0 37	2 51	0 45	17 47
T 15	18 28	18 14	1 28	24 56	2 32	7 23	0 46	10 23	1 39	10 55	0 52	19 57	0 37	2 50	0 45	17 47
W16	18 43	19 30	2 33	25 7	2 34	7 20	0 35	10 9	1 36	10 53	0 52	19 57	0 37	2 49	0 45	17 46
T 17	18 58	19 45	3 31	25 17	2 35	7 18	0 23	9 54	1 34	10 51	0 52	19 56	0 37	2 48	0 45	17 46
F 18	19 12	18 56	4 20	25 25	2 36	7 17	0 12	9 39	1 31	10 49	0 52	19 55	0 37	2 47	0 45	17 46
S 19	19 27	17 3	4 54	25 32	2 36	7 16	0 2	9 24	1 29	10 47	0 53	19 54	0 37	2 46	0 45	17 45
S 20	19 40	14 11	5 13	25 37	2 35	7 17	0n 8	9 9	1 26	10 45	0 53	19 53	0 37	2 46	0 45	17 45
M21	19 54	10 30	5 14	25 41	2 34	7 18	0 18	8 54	1 24	10 43	0 53	19 52	0 37	2 45	0 45	17 44
T 22	20 7	6 12	4 57	25 43	2 32	7 21	0 28	8 39	1 21	10 41	0 53	19 51	0 37	2 44	0 45	17 44
W23	20 20	1 30	4 21	25 44	2 30	7 24	0 37	8 24	1 19	10 39	0 53	19 50	0 37	2 43	0 45	17 44
T 24	20 32	3n19	3 29	25 43	2 26	7 28	0 46	8 9	1 16	10 38	0 54	19 49	0 37	2 42	0 45	17 43
F 25	20 44	8 0	2 24	25 41	2 22	7 33	0 55	7 53	1 14	10 36	0 54	19 48	0 37	2 42	0 45	17 43
S 26	20 55	12 14	1 9	25 37	2 16	7 39	1 3	7 38	1 12	10 35	0 54	19 47	0 37	2 41	0 45	17 43
S 27	21 7	15 43	0s10	25 32	2 10	7 45	1 11	7 23	1 9	10 33	0 54	19 46	0 37	2 40	0 45	17 42
M28	21 17	18 14	1 27	25 25	2 2	7 52	1 19	7 7	1 7	10 32	0 55	19 44	0 37	2 40	0 45	17 42
T 29	21 28	19 35	2 38	25 17	1 53	8 0	0 1	26 6	1 5	10 30	0 55	19 43	0 38	2 39	0 45	17 41
W30	21s38	19n44	3s38	25s 7	1s43	8s 8	1n33	6s36	1s 3	10n29	0n55	19s42	0s38	2n38	0n45	17n41

Julian Day Number = 2470111.5, Delta T = 74.82 sec

Ecliptic obliquity = 23°25'51", Nutation = 0°00'10", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°27'02", Lahiri = 24°34'02"

ASTRODIENST EPHEMERIS for the year 2050
geocentric

DECEMBER 2050

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 40 13	8♌58'15	8♋50	27♊45	25♏27	16♏18	5♎11	4♎44	25♎8	26♏38	8♏29	11♏R32	10♎18	25♎11	14♏25	T 1
F 2	4 44 10	9°59'03	21°54	27°R47	26°10	16°54	5°15	4°49	25°9	26♏36	8°30	11♎27	10°14	25°18	14°32	F 2
S 3	4 48 6	10°59'51	4♏36	27°39	26°55	17°29	5°19	4°54	25°11	26°35	8°30	11°23	10°11	25°24	14°39	S 3
S 4	4 52 3	12° 0'41	17° 1	27°20	27°40	18° 5	5°22	4°59	25°13	26°33	8°30	11°19	10° 8	25°31	14°46	S 4
M 5	4 55 59	13° 1'32	29° 9	26°50	28°26	18°41	5°26	5° 4	25°14	26°31	8°30	11°16	10° 5	25°38	14°54	M 5
T 6	4 59 56	14° 2'24	11♎7	26° 9	29°14	19°17	5°29	5°10	25°15	26°30	8°31	11°D15	10° 2	25°45	15° 1	T 6
W 7	5 3 52	15° 3'18	22°58	25°17	0♎2	19°53	5°31	5°15	25°17	26°28	8°31	11°16	9°59	25°51	15° 8	W 7
T 8	5 7 49	16° 4'13	4♏48	24°15	0°51	20°29	5°34	5°20	25°18	26°27	8°32	11°17	9°55	25°58	15°15	T 8
F 9	5 11 45	17° 5'10	16°42	23° 5	1°41	21° 5	5°37	5°26	25°19	26°25	8°32	11°19	9°52	26° 5	15°23	F 9
S 10	5 15 42	18° 6'07	28°44	21°47	2°32	21°42	5°39	5°31	25°21	26°23	8°32	11°20	9°49	26°11	15°30	S 10
S 11	5 19 39	19° 7'06	10♎59	20°26	3°23	22°19	5°41	5°37	25°22	26°22	8°33	11°R21	9°46	26°18	15°37	S 11
M12	5 23 35	20° 8'06	23°30	19° 3	4°16	22°55	5°43	5°43	25°23	26°20	8°33	11°20	9°43	26°25	15°44	M12
T 13	5 27 32	21° 9'07	6♏19	17°41	5° 9	23°32	5°45	5°48	25°24	26°19	8°34	11°18	9°39	26°31	15°52	T 13
W14	5 31 28	22°10'08	19°27	16°23	6° 2	24° 9	5°46	5°54	25°25	26°17	8°34	11°13	9°36	26°38	15°59	W14
T 15	5 35 25	23°11'11	2♏53	15°12	6°57	24°46	5°48	6° 0	25°26	26°16	8°35	11° 7	9°33	26°45	16° 6	T 15
F 16	5 39 21	24°12'14	16°35	14° 9	7°52	25°23	5°49	6° 6	25°27	26°14	8°36	10°59	9°30	26°51	16°13	F 16
S 17	5 43 18	25°13'18	0♎29	13°16	8°48	26° 0	5°50	6°12	25°27	26°13	8°36	10°51	9°27	26°58	16°20	S 17
S 18	5 47 14	26°14'23	14°32	12°33	9°44	26°38	5°51	6°18	25°28	26°12	8°37	10°45	9°24	27° 5	16°27	S 18
M19	5 51 11	27°15'27	28°40	12° 1	10°41	27°15	5°51	6°24	25°29	26°10	8°38	10°39	9°20	27°11	16°35	M19
T 20	5 55 8	28°16'32	12♏49	11°41	11°38	27°53	5°52	6°30	25°29	26° 9	8°38	10°36	9°17	27°18	16°42	T 20
W21	5 59 4	29°17'38	26°58	11°D31	12°36	28°30	5°52	6°36	25°30	26° 7	8°39	10°D35	9°14	27°25	16°49	W21
T 22	6 3 1	0♏18'43	11♏5	11°31	13°34	29° 8	5°R52	6°43	25°31	26° 6	8°40	10°35	9°11	27°31	16°56	T 22
F 23	6 6 57	1°19'49	25° 8	11°41	14°33	29°46	5°52	6°49	25°31	26° 5	8°40	10°36	9° 8	27°38	17° 3	F 23
S 24	6 10 54	2°20'55	9♏6	11°59	15°32	0♏23	5°51	6°55	25°31	26° 3	8°41	10°R37	9° 5	27°45	17°10	S 24
S 25	6 14 50	3°22'01	22°59	12°25	16°32	1° 1	5°51	7° 2	25°32	26° 2	8°42	10°36	9° 1	27°51	17°17	S 25
M26	6 18 47	4°23'07	6♏44	12°58	17°33	1°39	5°50	7° 8	25°32	26° 1	8°43	10°34	8°58	27°58	17°24	M26
T 27	6 22 43	5°24'14	20°20	13°37	18°33	2°17	5°49	7°14	25°32	26° 0	8°44	10°28	8°55	28° 5	17°31	T 27
W28	6 26 40	6°25'21	3♏44	14°22	19°34	2°55	5°48	7°21	25°33	25°58	8°45	10°20	8°52	28°12	17°38	W28
T 29	6 30 37	7°26'28	16°54	15°12	20°36	3°33	5°47	7°27	25°33	25°57	8°46	10°10	8°49	28°18	17°45	T 29
F 30	6 34 33	8°27'35	29°49	16° 7	21°38	4°12	5°45	7°34	25°33	25°56	8°46	9°59	8°45	28°25	17°52	F 30
S 31	6 38 30	9♏28'43	12♏26	17♏5	22♎40	4♏50	5♎43	7♎41	25°R33	25♏55	8♏47	9♎48	8♎42	28♎32	17♏59	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
T 1	21s47	18n45	4s24	24s56	1s31	8s17	1n40	6s20	1s 1	10n28	0n55	19s41	0s38	2n38	0n45	17n41	1s46	20s28	13s 5	15s17	14s54	1s26	18s 4	4n29	
F 2	21 56	16 48	4 55	24 43	1 18	8 27	1 47	6 4	0 58	10 27	0 56	19 40	0 38	2 37	0 45	17 40	1 46	20 28	13 5	15 16	14 53	1 28	18 5	4 29	
S 3	22 5	14 4	5 11	24 28	1 3	8 37	1 53	5 48	0 56	10 26	0 56	19 39	0 38	2 36	0 45	17 40	1 46	20 27	13 4	15 14	14 52	1 30	18 6	4 29	
S 4	22 13	10 47	5 11	24 12	0 47	8 47	1 59	5 32	0 54	10 25	0 56	19 37	0 38	2 36	0 45	17 40	1 46	20 27	13 4	15 13	14 51	1 33	18 6	4 29	
M 5	22 21	7 6	4 58	23 54	0 30	8 58	2 5	5 17	0 52	10 24	0 56	19 36	0 38	2 35	0 45	17 39	1 46	20 27	13 4	15 12	14 50	1 35	18 7	4 29	
T 6	22 29	3 12	4 32	23 34	0 12	9 10	2 10	5 1	0 50	10 23	0 57	19 35	0 38	2 35	0 46	17 39	1 46	20 26	13 3	15 12	14 49	1 37	18 8	4 29	
W 7	22 36	0s48	3 54	23 13	0n 8	9 22	2 15	4 45	0 48	10 22	0 57	19 34	0 38	2 34	0 46	17 39	1 46	20 26	13 3	15 12	14 48	1 39	18 8	4 29	
T 8	22 42	4 46	3 6	22 51	0 28	9 34	2 20	4 29	0 46	10 21	0 57	19 32	0 38	2 34	0 46	17 38	1 46	20 25	13 3	15 13	14 47	1 41	18 9	4 30	
F 9	22 48	8 34	2 11	22 27	0 48	9 47	2 25	4 12	0 44	10 20	0 57	19 31	0 38	2 33	0 46	17 38	1 46	20 25	13 3	15 13	14 46	1 43	18 10	4 30	
S 10	22 54	12 5	1 8	22 2	1 8	10 0	2 29	3 56	0 42	10 20	0 58	19 30	0 38	2 33	0 46	17 38	1 46	20 25	13 2	15 14	14 45	1 45	18 10	4 30	
S 11	22 59	15 9	0 2	21 38	1 28	10 14	2 34	3 40	0 40	10 19	0 58	19 28	0 38	2 33	0 46	17 37	1 46	20 24	13 2	15 14	14 44	1 47	18 11	4 30	
M12	23 4	17 35	1n 6	21 13	1 46	10 28	2 37	3 24	0 38	10 19	0 58	19 27	0 38	2 32	0 46	17 37	1 46	20 24	13 2	15 14	14 43	1 49	18 11	4 30	
T 13	23 8	19 12	2 12	20 50	2 2	10 42	2 41	3 8	0 37	10 18	0 59	19 25	0 38	2 32	0 46	17 37	1 46	20 23	13 2	15 13	14 42	1 51	18 12	4 30	
W14	23 12	19 49	3 12	20 28	2 17	10 56	2 45	2 51	0 35	10 18	0 59	19 24	0 38	2 31	0 46	17 36	1 46	20 23	13 1	15 11	14 41	1 53	18 12	4 31	
T 15	23 15	19 21	4 3	20 8	2 29	11 11	2 48	2 35	0 33	10 18	0 59	19 23	0 38	2 31	0 46	17 36	1 46	20 22	13 1	15 9	14 40	1 55	18 13	4 31	
F 16	23 18	17 45	4 41	19 51	2 39	11 26	2 51	2 19	0 31	10 18	0 59	19 21	0 38	2 31	0 46	17 36	1 46	20 22	13 1	15 7	14 39	1 57	18 13	4 31	
S 17	23 21	15 6	5 3	19 38	2 47	11 41	2 54	2 2	0 29	10 18	1 0	19 20	0 38	2 31	0 46	17 35	1 45	20 21	13 0	15 5	14 38	1 59	18 14	4 31	
S 18	23 23	11 33	5 8	19 27	2 52	11 56	2 56	1 46	0 28	10 18	1 0	19 18	0 38	2 30	0 46	17 35	1 45	20 21	13 0	15 3	14 37	2 1	18 14	4 32	
M19	23 24	7 21	4 53	19 20	2 55	12 11	2 59	1 29	0 26	10 18	1 0	19 17	0 38	2 30	0 46	17 35	1 45	20 20	13 0	15 1	14 36	2 3	18 15	4 32	
T 20	23 25	2 43	4 21	19 16	2 56	12 27	3 1	1 13	0 24	10 18	1 0	19 15	0 38	2 30	0 46	17 34	1 45	20 20	13 0	15 0	14 35	2 5	18 15	4 32	
W21	23 26	2n 3	3 33	19 15	2 56	12 42	3 3	0 57	0 23	10 18	1 1	19 14	0 38	2 30	0 46	17 34	1 45	20 19	12 59	15 0	14 34	2 7	18 16	4 32	
T 22	23 26	6 43	2 32	19 17	2 54	12 58	3 5	0 40	0 21	10 18	1 1	19 12	0 38	2 29	0 46	17 34	1 45	20 19	12 59	15 0	14 33	2 10	18 16	4 33	
F 23	23 25	11 0	1 23	19 22	2 51	13 14	3 6	0 24	0 19	10 18	1 1	19 11	0 38	2 29	0 46	17 34	1 45	20 18	12 59	15 0	14 32	2 12	18 16	4 33	
S 24	23 25	14 39	0 8	19 28	2 46	13 29	3 8	0 7	0 18	10 19	1 1	19 9	0 38	2 29	0 46	17 33	1 45	20 18	12 59	15 0	14 31	2 14	18 17	4 33	
S 25	23 23	17 27	1s 6	19 37	2 41	13 45	3 9	0n 9	0 16	10 19	1 2	19 8	0 38	2 29	0 46	17 33	1 45	20 17	12 58	15 0	14 30	2 16	18 17	4 33	
M26	23 21	19 12	2 16	19 47	2 35	14 1	3 10	0 26	0 15	10 20	1 2	19 6	0 38	2 29	0 46	17 33	1 45	20 17	12 58	14 59	14 29	2 18	18 18	4 34	
T 27	23 19	19 49	3 16	19 59	2 28	14 17	3 11	0 42	0 13	10 20	1 2	19 4	0 38	2 29	0 46	17 33	1 45	20 16	12 58	14 57	14 28	2 20	18 18	4 34	
W28	23 16	19 18	4 5	20 11	2 21	14 32	3 12	0 59	0 12	10 21	1 3	19 3	0 38	2 29	0 46	17 32	1 45	20 16	12 58	14 55	14 27	2 22	18 18	4 34	
T 29	23 13	17 44	4 40	20 24	2 13	14 48	3 12	1 15	0 10	10 22	1 3	19 1	0 38	2 29	0 46	17 32	1 45	20 15	12 57	14 52	14 26	2 24	18 19	4 34	
F 30	23 10	15 18	5 0	20 38	2 5	15 4	3 13	1 32	0 9	10 23	1 3	19 0	0 38	2 29	0 47	17 32	1 45	20 14	12 57	14 48	14 25	2 26	18 19	4 35	
S 31	23s 6	12n12	5s 4	20s52	1n57	15s19	3n13	1n48	0s 7	10n23	1n 3	18s58	0s39	2n29	0n47	17n32	1s45	20s14	12s57	14s45	14s24	2s28	18s19	4n35	