



Astrodienst Ephemeris Tables for the year 1450

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 1450

geocentric

JANUARY 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 16 14	19°35'37	21°02'26	0°R40	9°30'30	17°11'19	16°31'18	23°R57	14°R32	28°R 1	3°R30	20°D41	22°10'10	24°05'50	2°R17	T 1
F 2	7 20 10	20°36'42	4°11'06	29°35'53	10°42'42	17°57'57	16°31'31	23°11'57	14°02'29	28°11'01	3°02'28	20°04'41	22°07'07	24°56'56	2°11'15	F 2
S 3	7 24 7	21°37'47	16°29'29	28°56'56	11°55'55	18°34'34	16°43'43	23°56'56	14°27'27	28°01'01	3°27'27	20°43'43	22°04'04	25°03'03	2°13'13	S 3
S 4	7 28 3	22°38'51	28°36'36	27°51'51	13°07'07	19°12'12	16°55'55	23°55'55	14°24'24	28°00'00	3°26'26	20°45'45	22°01'01	25°10'10	2°11'11	S 4
M 5	7 32 0	23°39'55	10°03'34	26°40'40	14°19'19	19°49'49	17°07'07	23°54'54	14°22'22	28°00'00	3°24'24	20°46'46	21°58'58	25°16'16	2°09'09	M 5
T 6	7 35 56	24°40'58	22°26'26	25°25'25	15°31'31	20°27'27	17°20'20	23°52'52	14°19'19	27°59'59	3°23'23	20°R47	21°54'54	25°23'23	2°08'08	T 6
W 7	7 39 53	25°42'01	4°11'18	24°08'08	16°44'44	21°04'04	17°32'32	23°51'51	14°16'16	27°59'59	3°22'22	20°47'47	21°51'51	25°30'30	2°06'06	W 7
T 8	7 43 49	26°43'03	16°14'14	22°52'52	17°56'56	21°42'42	17°44'44	23°50'50	14°14'14	27°58'58	3°20'20	20°45'45	21°48'48	25°37'37	2°04'04	T 8
F 9	7 47 46	27°44'05	28°19'19	21°39'39	19°09'09	22°19'19	17°56'56	23°48'48	14°11'11	27°57'57	3°19'19	20°43'43	21°45'45	25°43'43	2°03'03	F 9
S 10	7 51 43	28°45'06	10°03'37	20°30'30	20°21'21	22°56'56	18°08'08	23°46'46	14°09'09	27°57'57	3°17'17	20°40'40	21°42'42	25°50'50	2°01'01	S 10
S 11	7 55 39	29°46'06	23°11'11	19°28'28	21°34'34	23°34'34	18°20'20	23°45'45	14°06'06	27°56'56	3°16'16	20°36'36	21°38'38	25°57'57	2°00'00	S 11
M12	7 59 36	0°04'06	6°03'03	18°33'33	22°46'46	24°11'11	18°31'31	23°43'43	14°04'04	27°55'55	3°15'15	20°33'33	21°35'35	26°03'03	1°58'58	M12
T 13	8 3 32	1°48'04	19°13'13	17°46'46	23°59'59	24°49'49	18°43'43	23°41'41	14°01'01	27°55'55	3°13'13	20°30'30	21°32'32	26°10'10	1°57'57	T 13
W14	8 7 29	2°49'02	2°04'02	17°08'08	25°12'12	25°26'26	18°55'55	23°39'39	13°59'59	27°54'54	3°12'12	20°28'28	21°29'29	26°17'17	1°56'56	W14
T 15	8 11 25	3°49'59	16°25'25	16°38'38	26°24'24	26°03'03	19°06'06	23°37'37	13°57'57	27°53'53	3°10'10	20°D28	21°26'26	26°24'24	1°55'55	T 15
F 16	8 15 22	4°50'54	0°04'21	16°17'17	27°37'37	26°40'40	19°18'18	23°35'35	13°54'54	27°52'52	3°09'09	20°28'28	21°23'23	26°30'30	1°54'54	F 16
S 17	8 19 19	5°51'48	14°28'28	16°05'05	28°50'50	27°18'18	19°29'29	23°32'32	13°52'52	27°51'51	3°08'08	20°29'29	21°19'19	26°37'37	1°53'53	S 17
S 18	8 23 15	6°52'41	28°40'40	16°D 0	0°03'03	27°55'55	19°40'40	23°30'30	13°49'49	27°51'51	3°06'06	20°30'30	21°16'16	26°44'44	1°52'52	S 18
M19	8 27 12	7°53'32	12°05'55	16°03'03	1°16'16	28°32'32	19°52'52	23°27'27	13°47'47	27°50'50	3°05'05	20°31'31	21°13'13	26°50'50	1°51'51	M19
T 20	8 31 8	8°54'22	27°09'09	16°14'14	2°29'29	29°09'09	20°03'03	23°25'25	13°45'45	27°49'49	3°03'03	20°32'32	21°10'10	26°57'57	1°50'50	T 20
W21	8 35 5	9°55'10	11°02'21	16°30'30	3°42'42	29°46'46	20°14'14	23°22'22	13°43'43	27°48'48	3°02'02	20°R32	21°07'07	27°04'04	1°49'49	W21
T 22	8 39 1	10°55'56	25°27'27	16°53'53	4°55'55	0°03'23	20°25'25	23°19'19	13°40'40	27°47'47	3°01'01	20°31'31	21°04'04	27°10'10	1°49'49	T 22
F 23	8 42 58	11°56'42	9°11'27	17°22'22	6°08'08	1°00'00	20°36'36	23°16'16	13°38'38	27°46'46	2°59'59	20°31'31	21°00'00	27°17'17	1°48'48	F 23
S 24	8 46 54	12°57'25	23°18'18	17°55'55	7°21'21	1°37'37	20°46'46	23°13'13	13°36'36	27°45'45	2°58'58	20°30'30	20°57'57	27°24'24	1°48'48	S 24
S 25	8 50 51	13°58'07	6°05'59	18°34'34	8°34'34	2°14'14	20°57'57	23°10'10	13°34'34	27°44'44	2°56'56	20°29'29	20°54'54	27°31'31	1°47'47	S 25
M26	8 54 48	14°58'47	20°27'27	19°16'16	9°47'47	2°51'51	21°08'08	23°07'07	13°32'32	27°43'43	2°55'55	20°28'28	20°51'51	27°37'37	1°47'47	M26
T 27	8 58 44	15°59'26	3°02'42	20°03'03	11°00'00	3°28'28	21°18'18	23°04'04	13°30'30	27°41'41	2°54'54	20°28'28	20°48'48	27°44'44	1°47'47	T 27
W28	9 2 41	17°00'03	16°43'43	20°53'53	12°13'13	4°05'05	21°29'29	23°01'01	13°28'28	27°40'40	2°52'52	20°D28	20°44'44	27°51'51	1°47'47	W28
T 29	9 6 37	18°03'39	29°29'29	21°47'47	13°26'26	4°42'42	21°39'39	22°57'57	13°25'25	27°39'39	2°51'51	20°28'28	20°41'41	27°57'57	1°D47	T 29
F 30	9 10 34	19°01'13	12°11'00	22°44'44	14°40'40	5°19'19	21°49'49	22°54'54	13°23'23	27°38'38	2°50'50	20°28'28	20°38'38	28°04'04	1°47'47	F 30
S 31	9 14 30	20°01'45	24°11'18	23°03'43	15°03'53	5°03'53	21°03'53	22°11'50	13°02'22	27°37'37	2°48'48	20°R28	20°03'35	28°01'11	1°47'47	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	22s 5	14n20	0s 4	18s 9	1n58	19s58	2n 0	16s15	0n51	22s20	0n29	4n30	2n17	23n10	0n27	T 1
F 2	21 56	8 54	1 13	18 1	2 16	20 11	1 58	16 26	0 50	22 21	0 29	4 31	2 17	23 10	0 27	F 2
S 3	21 46	3 15	2 17	17 56	2 33	20 23	1 55	16 37	0 50	22 22	0 29	4 31	2 18	23 10	0 27	S 3
S 4	21 36	2s24	3 13	17 54	2 48	20 35	1 53	16 47	0 49	22 24	0 29	4 32	2 18	23 11	0 27	S 4
M 5	21 26	7 53	4 0	17 55	3 2	20 46	1 50	16 58	0 49	22 25	0 29	4 33	2 18	23 11	0 27	M 5
T 6	21 15	13 2	4 37	17 57	3 13	20 57	1 47	17 9	0 48	22 26	0 29	4 34	2 18	23 11	0 27	T 6
W 7	21 4	17 43	5 1	18 2	3 22	21 7	1 45	17 19	0 48	22 27	0 28	4 34	2 19	23 12	0 27	W 7
T 8	20 53	21 44	5 13	18 8	3 29	21 16	1 42	17 29	0 47	22 28	0 28	4 35	2 19	23 12	0 27	T 8
F 9	20 41	24 54	5 11	18 16	3 33	21 25	1 39	17 39	0 47	22 29	0 28	4 36	2 19	23 12	0 27	F 9
S 10	20 28	26 59	4 55	18 24	3 35	21 33	1 36	17 49	0 46	22 31	0 28	4 37	2 19	23 12	0 27	S 10
S 11	20 16	27 45	4 25	18 34	3 34	21 41	1 34	17 59	0 45	22 32	0 28	4 38	2 20	23 13	0 27	S 11
M12	20 3	27 3	3 41	18 44	3 31	21 48	1 31	18 9	0 45	22 33	0 28	4 39	2 20	23 13	0 27	M12
T 13	19 49	24 50	2 44	18 55	3 27	21 55	1 28	18 19	0 44	22 34	0 28	4 40	2 20	23 13	0 27	T 13
W14	19 35	21 11	1 37	19 6	3 21	22 1	1 25	18 28	0 44	22 35	0 28	4 41	2 20	23 13	0 27	W14
T 15	19 21	16 19	0 22	19 17	3 13	22 6	1 22	18 38	0 43	22 36	0 28	4 42	2 21	23 14	0 27	T 15
F 16	19 7	10 32	0n54	19 28	3 4	22 11	1 19	18 47	0 43	22 37	0 28	4 43	2 21	23 14	0 27	F 16
S 17	18 52	4 9	2 9	19 39	2 55	22 15	1 16	18 56	0 42	22 38	0 28	4 44	2 21	23 14	0 27	S 17
S 18	18 37	2n28	3 16	19 49	2 45	22 18	1 13	19 5	0 41	22 39	0 28	4 45	2 21	23 14	0 27	S 18
M19	18 21	8 58	4 11	20 0	2 34	22 21	1 10	19 14	0 41	22 40	0 28	4 46	2 22	23 15	0 27	M19
T 20	18 5	15 0	4 51	20 10	2 23	22 23	1 6	19 23	0 40	22 40	0 28	4 48	2 22	23 15	0 27	T 20
W21	17 49	20 14	5 13	20 19	2 12	22 24	1 3	19 31	0 39	22 41	0 28	4 49	2 22	23 15	0 27	W21
T 22	17 32	24 17	5 15	20 27	2 0	22 25	1 0	19 40	0 39	22 42	0 28	4 50	2 22	23 15	0 27	T 22
F 23	17 16	26 52	5 0	20 35	1 49	22 25	0 57	19 48	0 38	22 43	0 28	4 52	2 23	23 16	0 27	F 23
S 24	16 59	27 47	4 26	20 42	1 37	22 25	0 54	19 56	0 38	22 44	0 28	4 53	2 23	23 16	0 27	S 24
S 25	16 41	26 58	3 38	20 48	1 26	22 24	0 50	20 4	0 37	22 44	0 28	4 54	2 23	23 16	0 27	S 25
M26	16 23	24 34	2 39	20 54	1 14	22 22	0 47	20 12	0 36	22 45	0 28	4 56	2 23	23 16	0 27	M26
T 27	16 6	20 52	1 32	20 58	1 3	22 19	0 44	20 20	0 35	22 46	0 28	4 57	2 24	23 16	0 27	T 27
W28	15 47	16 12	0 21	21 1	0 52	22 16	0 41	20 28	0 35	22 47	0 28	4 59	2 24	23 17	0 27	W28
T 29	15 29	10 55	0s50	21 4	0 41	22 12	0 38	20 35	0 34	22 47	0 28	5 0	2 24	23 17	0 27	T 29
F 30	15 10	5 17	1 57	21 5	0 31	22 8	0 34	20 42	0 33	22 48	0 28	5 2	2 24	23 17	0 27	F 30
S 31	14s51	0s26	2s57	21s 5	0n21	22s 3	0n31	20s50	0n32	22s49	0n28	5n 4	2n24	23n17	0n27	S 31

Julian Day Number = 2250670.5, Delta T = 06m29s

Ecliptic obliquity = 23°30'45", Nutation = 0°00'11", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°04'02", Lahiri = 16°11'02" Julian Calendar 1 Jan. 1450 == Greg. Calendar 10 Jan. 1450

ASTRODIENST EPHEMERIS for the year 1450

geocentric

FEBRUARY 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	9 18 27	21° 21'	6° 25'	24° 36'	17° 36'	6° 32'	22° 9'	22° 47'	13° 20'	27° 35'	2° 47'	20° 28'	20° 32'	28° 18'	1° 47'	S 1
M 2	9 22 23	22° 24'	18° 23'	25° 50'	18° 19'	7° 9'	22° 19'	22° 43'	13° 18'	27° 34'	2° 46'	20° 28'	20° 29'	28° 24'	1° 47'	M 2
T 3	9 26 20	23° 31'	0° 16'	26° 57'	19° 33'	7° 46'	22° 29'	22° 39'	13° 16'	27° 33'	2° 44'	20° 27'	20° 25'	28° 31'	1° 47'	T 3
W 4	9 30 17	24° 34'	12° 8'	28° 6'	20° 46'	8° 22'	22° 38'	22° 36'	13° 14'	27° 32'	2° 43'	20° 27'	20° 22'	28° 38'	1° 48'	W 4
T 5	9 34 13	25° 40'	24° 4'	29° 17'	21° 59'	8° 59'	22° 48'	22° 32'	13° 12'	27° 30'	2° 42'	20° 27'	20° 19'	28° 44'	1° 48'	T 5
F 6	9 38 10	26° 43'	6° 7'	0° 30'	23° 13'	9° 36'	22° 57'	22° 28'	13° 11'	27° 29'	2° 41'	20° 27'	20° 16'	28° 51'	1° 49'	F 6
S 7	9 42 6	27° 45'	18° 24'	1° 45'	24° 26'	10° 12'	23° 7'	22° 24'	13° 9'	27° 28'	2° 39'	20° 28'	20° 13'	28° 58'	1° 49'	S 7
S 8	9 46 3	28° 51'	0° 57'	3° 1'	25° 40'	10° 49'	23° 16'	22° 20'	13° 7'	27° 26'	2° 38'	20° 28'	20° 10'	29° 5'	1° 50'	S 8
M 9	9 49 59	29° 53'	13° 51'	4° 19'	26° 53'	11° 25'	23° 25'	22° 16'	13° 6'	27° 25'	2° 37'	20° 29'	20° 6'	29° 11'	1° 51'	M 9
T 10	9 53 56	0° 55'	27° 8'	5° 38'	28° 7'	12° 1'	23° 34'	22° 12'	13° 4'	27° 23'	2° 36'	20° 30'	20° 3'	29° 18'	1° 52'	T 10
W 11	9 57 52	1° 61'	10° 49'	6° 59'	29° 20'	12° 38'	23° 43'	22° 7'	13° 3'	27° 22'	2° 34'	20° 30'	20° 0'	29° 25'	1° 53'	W 11
T 12	10 1 49	2° 62'	24° 51'	8° 22'	0° 34'	13° 14'	23° 52'	22° 3'	13° 1'	27° 21'	2° 33'	20° 31'	19° 57'	29° 31'	1° 54'	T 12
F 13	10 5 46	3° 64'	9° 12'	9° 45'	1° 47'	13° 50'	24° 0'	21° 59'	13° 0'	27° 19'	2° 32'	20° 30'	19° 54'	29° 38'	1° 55'	F 13
S 14	10 9 42	4° 65'	23° 47'	11° 10'	3° 1'	14° 27'	24° 9'	21° 54'	12° 58'	27° 18'	2° 31'	20° 29'	19° 50'	29° 45'	1° 56'	S 14
S 15	10 13 39	5° 70'	8° 29'	12° 36'	4° 14'	15° 3'	24° 17'	21° 50'	12° 57'	27° 16'	2° 30'	20° 27'	19° 47'	29° 52'	1° 57'	S 15
M 16	10 17 35	6° 70'	23° 11'	14° 4'	5° 28'	15° 39'	24° 25'	21° 46'	12° 56'	27° 15'	2° 29'	20° 25'	19° 44'	29° 58'	1° 58'	M 16
T 17	10 21 32	7° 71'	7° 46'	15° 32'	6° 41'	16° 15'	24° 33'	21° 41'	12° 55'	27° 13'	2° 27'	20° 23'	19° 41'	0° 12'	2° 0'	T 17
W 18	10 25 28	8° 71'	22° 10'	17° 2'	7° 55'	16° 51'	24° 41'	21° 37'	12° 53'	27° 12'	2° 26'	20° 22'	19° 38'	0° 12'	2° 1'	W 18
T 19	10 29 25	9° 71'	6° 19'	18° 33'	9° 8'	17° 27'	24° 49'	21° 32'	12° 52'	27° 10'	2° 25'	20° 21'	19° 35'	0° 18'	2° 3'	T 19
F 20	10 33 21	10° 71'	20° 11'	20° 6'	10° 22'	18° 3'	24° 57'	21° 28'	12° 51'	27° 8'	2° 24'	20° 21'	19° 31'	0° 25'	2° 4'	F 20
S 21	10 37 18	11° 71'	3° 47'	21° 39'	11° 35'	18° 39'	25° 4'	21° 23'	12° 50'	27° 7'	2° 23'	20° 23'	19° 28'	0° 32'	2° 6'	S 21
S 22	10 41 15	12° 70'	17° 6'	23° 13'	12° 49'	19° 14'	25° 12'	21° 18'	12° 49'	27° 5'	2° 22'	20° 24'	19° 25'	0° 39'	2° 8'	S 22
M 23	10 45 11	13° 65'	0° 11'	24° 49'	14° 2'	19° 50'	25° 19'	21° 14'	12° 48'	27° 4'	2° 21'	20° 25'	19° 22'	0° 45'	2° 10'	M 23
T 24	10 49 8	14° 64'	13° 2'	26° 26'	15° 16'	20° 26'	25° 26'	21° 9'	12° 47'	27° 2'	2° 20'	20° 27'	19° 19'	0° 52'	2° 12'	T 24
W 25	10 53 4	15° 63'	25° 41'	28° 4'	16° 30'	21° 1'	25° 33'	21° 4'	12° 46'	27° 0'	2° 19'	20° 27'	19° 16'	0° 59'	2° 14'	W 25
T 26	10 57 1	16° 62'	8° 8'	29° 44'	17° 43'	21° 37'	25° 40'	21° 0'	12° 46'	26° 59'	2° 18'	20° 25'	19° 12'	1° 5'	2° 16'	T 26
F 27	11 0 57	17° 60'	20° 26'	1° 24'	18° 57'	22° 12'	25° 47'	20° 55'	12° 45'	26° 57'	2° 17'	20° 23'	19° 9'	1° 12'	2° 18'	F 27
S 28	11 4 54	18° 54'	2° 35'	3° 6'	20° 10'	22° 48'	25° 53'	20° 50'	12° 44'	26° 56'	2° 16'	20° 19'	19° 6'	1° 19'	2° 20'	S 28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	14s32	6s 3	3s48	21s 4	0n11	21s57	0n28	20s57	0n32	22s49	0n28	5n 5	2n25	23n17	0n27	S 1
M 2	14 12	11 22	4 29	21 2	0 1	21 51	0 25	21 4	0 31	22 50	0 28	5 7	2 25	23 18	0 27	M 2
T 3	13 52	16 14	4 58	20 58	0s 8	21 44	0 22	21 11	0 30	22 50	0 28	5 8	2 25	23 18	0 27	T 3
W 4	13 33	20 30	5 14	20 54	0 18	21 36	0 18	21 17	0 29	22 51	0 27	5 10	2 25	23 18	0 27	W 4
T 5	13 12	23 57	5 16	20 48	0 26	21 28	0 15	21 24	0 29	22 52	0 27	5 12	2 25	23 18	0 27	T 5
F 6	12 52	26 24	5 5	20 40	0 35	21 19	0 12	21 30	0 28	22 52	0 27	5 14	2 26	23 18	0 27	F 6
S 7	12 31	27 39	4 40	20 32	0 43	21 9	0 9	21 36	0 27	22 53	0 27	5 15	2 26	23 18	0 27	S 7
S 8	12 10	27 32	4 1	20 22	0 51	20 59	0 6	21 42	0 26	22 53	0 27	5 17	2 26	23 19	0 27	S 8
M 9	11 49	25 56	3 9	20 11	0 59	20 48	0 3	21 48	0 25	22 54	0 27	5 19	2 26	23 19	0 27	M 9
T 10	11 28	22 51	2 6	19 59	1 6	20 36	0s 0	21 54	0 24	22 54	0 27	5 21	2 26	23 19	0 27	T 10
W 11	11 7	18 26	0 53	19 45	1 13	20 24	0 3	22 0	0 23	22 55	0 27	5 22	2 26	23 19	0 27	W 11
T 12	10 45	12 54	0n24	19 30	1 19	20 12	0 6	22 5	0 23	22 55	0 27	5 24	2 27	23 19	0 27	T 12
F 13	10 24	6 34	1 42	19 14	1 26	19 58	0 9	22 10	0 22	22 55	0 27	5 26	2 27	23 19	0 27	F 13
S 14	10 2	0n11	2 54	18 56	1 31	19 45	0 12	22 16	0 21	22 56	0 27	5 28	2 27	23 19	0 27	S 14
S 15	9 40	6 58	3 55	18 37	1 37	19 30	0 15	22 21	0 20	22 56	0 27	5 30	2 27	23 20	0 27	S 15
M 16	9 18	13 23	4 41	18 17	1 42	19 15	0 18	22 26	0 19	22 57	0 27	5 32	2 27	23 20	0 27	M 16
T 17	8 55	18 59	5 8	17 56	1 47	19 0	0 21	22 30	0 18	22 57	0 27	5 34	2 27	23 20	0 27	T 17
W 18	8 33	23 26	5 15	17 33	1 51	18 44	0 24	22 35	0 17	22 57	0 27	5 36	2 27	23 20	0 27	W 18
T 19	8 10	26 24	5 3	17 8	1 55	18 27	0 26	22 39	0 16	22 58	0 27	5 37	2 27	23 20	0 27	T 19
F 20	7 48	27 42	4 34	16 42	1 59	18 10	0 29	22 44	0 15	22 58	0 27	5 39	2 28	23 20	0 27	F 20
S 21	7 25	27 17	3 49	16 15	2 2	17 52	0 32	22 48	0 14	22 58	0 27	5 41	2 28	23 20	0 27	S 21
S 22	7 2	25 17	2 53	15 47	2 5	17 34	0 34	22 52	0 13	22 59	0 27	5 43	2 28	23 20	0 27	S 22
M 23	6 39	21 57	1 49	15 17	2 7	17 15	0 37	22 56	0 12	22 59	0 27	5 45	2 28	23 20	0 27	M 23
T 24	6 16	17 36	0 41	14 46	2 9	16 56	0 40	22 59	0 11	22 59	0 27	5 47	2 28	23 20	0 27	T 24
W 25	5 53	12 33	0s29	14 14	2 11	16 37	0 42	23 3	0 9	22 59	0 27	5 49	2 28	23 20	0 27	W 25
T 26	5 30	7 4	1 36	13 40	2 12	16 17	0 45	23 7	0 8	23 0	0 27	5 51	2 28	23 20	0 27	T 26
F 27	5 7	1 24	2 37	13 5	2 13	15 56	0 47	23 10	0 7	23 0	0 27	5 53	2 28	23 21	0 27	F 27
S 28	4s43	4s15	3s31	12s28	2s13	15s35	0s49	23s13	0n 6	23s 0	0n27	5n55	2n28	23n21	0n27	S 28

Julian Day Number = 2250701.5, Delta T = 06m29s

Ecliptic obliquity = 23°30'46", Nutation = 0°00'12", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°04'06", Lahiri = 16°11'07" Julian Calendar 1 Feb. 1450 == Greg. Calendar 10 Feb. 1450

ASTRODIENST EPHEMERIS for the year 1450
geocentric

MARCH 1450 JC

00:00 UT

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

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	4s20	9s41	4s14	11s50	2s13	15s14	0s52	23s16	0n 5	23s 0	0n27	5n57	2n28	23n21	0n27	2n35
M 2	3 56	14 43	4 46	11 11	2 12	14 52	0 54	23 19	0 4	23 1	0 27	5 59	2 28	23 21	0 27	2 35
T 3	3 33	19 10	5 5	10 31	2 11	14 30	0 56	23 22	0 2	23 1	0 27	6 0	2 28	23 21	0 27	2 36
W 4	3 9	22 52	5 12	9 49	2 10	14 7	0 58	23 24	0 1	23 1	0 27	6 2	2 28	23 21	0 27	2 37
T 5	2 46	25 38	5 5	9 6	2 8	13 44	1 0	23 27	0s 0	23 1	0 27	6 4	2 28	23 21	0 27	2 38
F 6	2 22	27 17	4 44	8 21	2 5	13 20	1 2	23 29	0 1	23 1	0 27	6 6	2 29	23 21	0 27	2 38
S 7	1 58	27 39	4 11	7 36	2 2	12 57	1 4	23 31	0 3	23 1	0 27	6 8	2 29	23 21	0 27	2 39
S 8	1 35	26 37	3 25	6 49	1 59	12 32	1 6	23 33	0 4	23 2	0 27	6 10	2 29	23 21	0 27	2 39
M 9	1 11	24 10	2 27	6 1	1 55	12 8	1 8	23 35	0 5	23 2	0 27	6 12	2 29	23 21	0 27	2 40
T 10	0 47	20 22	1 20	5 11	1 50	11 43	1 10	23 37	0 7	23 2	0 27	6 14	2 29	23 21	0 27	2 41
W 11	0 24	15 23	0 7	4 21	1 45	11 18	1 11	23 39	0 8	23 2	0 27	6 16	2 29	23 21	0 27	2 41
T 12	0 0	9 25	1n 9	3 29	1 39	10 53	1 13	23 40	0 9	23 2	0 27	6 17	2 29	23 21	0 26	2 42
F 13	0n24	2 48	2 23	2 36	1 33	10 27	1 15	23 42	0 11	23 2	0 26	6 19	2 29	23 21	0 26	2 43
S 14	0 47	4n 6	3 29	1 43	1 26	10 1	1 16	23 43	0 12	23 2	0 26	6 21	2 29	23 21	0 26	2 43
S 15	1 11	10 51	4 21	0 48	1 19	9 35	1 18	23 44	0 14	23 3	0 26	6 23	2 29	23 21	0 26	2 44
M 16	1 34	16 58	4 55	0n 8	1 11	9 8	1 19	23 45	0 15	23 3	0 26	6 24	2 29	23 21	0 26	2 45
T 17	1 58	22 1	5 8	1 4	1 3	8 41	1 20	23 46	0 17	23 3	0 26	6 26	2 29	23 21	0 26	2 45
W 18	2 21	25 34	5 1	2 1	0 54	8 14	1 22	23 47	0 18	23 3	0 26	6 28	2 29	23 21	0 26	2 46
T 19	2 45	27 23	4 34	2 58	0 45	7 47	1 23	23 47	0 20	23 3	0 26	6 30	2 29	23 21	0 26	2 46
F 20	3 8	27 23	3 52	3 56	0 36	7 19	1 24	23 48	0 21	23 3	0 26	6 31	2 28	23 21	0 26	2 47
S 21	3 32	25 44	2 58	4 54	0 26	6 52	1 25	23 48	0 23	23 3	0 26	6 33	2 28	23 20	0 26	2 48
S 22	3 55	22 41	1 56	5 52	0 15	6 24	1 26	23 48	0 24	23 3	0 26	6 35	2 28	23 20	0 26	2 48
M 23	4 18	18 34	0 50	6 50	0 4	5 56	1 27	23 49	0 26	23 3	0 26	6 36	2 28	23 20	0 26	2 49
T 24	4 41	13 43	0s18	7 47	0n 6	5 28	1 28	23 49	0 28	23 3	0 26	6 38	2 28	23 20	0 26	2 50
W 25	5 4	8 24	1 23	8 44	0 18	4 59	1 28	23 49	0 29	23 3	0 26	6 39	2 28	23 20	0 26	2 50
T 26	5 27	2 50	2 24	9 40	0 29	4 31	1 29	23 49	0 31	23 4	0 26	6 41	2 28	23 20	0 26	2 51
F 27	5 50	2s45	3 17	10 36	0 40	4 2	1 30	23 48	0 33	23 4	0 26	6 42	2 28	23 20	0 26	2 52
S 28	6 13	8 12	4 1	11 29	0 51	3 33	1 30	23 48	0 35	23 4	0 26	6 44	2 28	23 20	0 26	2 52
S 29	6 35	13 19	4 34	12 22	1 2	3 5	1 31	23 48	0 37	23 4	0 26	6 45	2 28	23 20	0 26	2 53
M 30	6 58	17 55	4 55	13 12	1 13	2 36	1 31	23 47	0 38	23 4	0 26	6 47	2 28	23 20	0 26	2 53
T 31	7n20	21s49	5s 3	14n 1	1n24	2s 7	1s32	23s46	0s40	23s 4	0n26	6n48	2n28	23n20	0n26	2n54

Julian Day Number = 2250729.5, Delta T = 06m29s
Ecliptic obliquity = 23°30'46", Nutation = 0°00'12", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°04'10", Lahiri = 16°11'10" Julian Calendar 1 March 1450 == Greg. Calendar 10 March 1450

ASTRODIENST EPHEMERIS for the year 1450

geocentric

APRIL 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	13 11 4	19°38'28	28°55	5°16	29°27	10°54	27°55	18°R30	12°51	26°R 4	1°R59	18°R18	17°24	4°54	4°II 2	W 1
T 2	13 15 0	20°37'02	10°52	7° 1	0°Y40	11°26	27°55	18°R26	12°52	26°R 2	1°R59	18°R 9	17°21	5° 1	4° 6	T 2
F 3	13 18 57	21°35'53	22°54	8°43	1°54	11°58	27°56	18°22	12°53	26° 1	1°59	18° 3	17°18	5° 7	4°10	F 3
S 4	13 22 53	22°34'06	5° 7	10°22	3° 8	12°29	27°57	18°19	12°54	26° 0	1°59	17°59	17°15	5°14	4°14	S 4
S 5	13 26 50	23°32'36	17°33	11°56	4°21	13° 1	27°57	18°16	12°55	25°58	1°59	17°58	17°12	5°21	4°18	S 5
M 6	13 30 46	24°31'03	0°18	13°26	5°35	13°32	27°R57	18°12	12°57	25°57	1°D59	17°D58	17° 8	5°27	4°22	M 6
T 7	13 34 43	25°29'30	13°25	14°51	6°49	14° 4	27°57	18° 9	12°58	25°55	1°59	17°R58	17° 5	5°34	4°27	T 7
W 8	13 38 39	26°27'54	26°59	16°12	8° 2	14°35	27°57	18° 6	12°59	25°54	1°59	17°58	17° 2	5°41	4°31	W 8
T 9	13 42 36	27°26'17	11° 2	17°28	9°16	15° 6	27°56	18° 3	13° 1	25°53	1°59	17°56	16°59	5°48	4°35	T 9
F 10	13 46 33	28°24'38	25°33	18°40	10°29	15°36	27°55	18° 0	13° 2	25°51	1°59	17°52	16°56	5°54	4°40	F 10
S 11	13 50 29	29°22'58	10°Y29	19°47	11°43	16° 7	27°55	17°57	13° 4	25°50	2° 0	17°45	16°53	6° 1	4°44	S 11
S 12	13 54 26	0°8'21'15	25°42	20°49	12°57	16°37	27°54	17°54	13° 5	25°49	2° 0	17°36	16°49	6° 8	4°49	S 12
M13	13 58 22	1°19'31	11° 1	21°46	14°10	17° 7	27°52	17°51	13° 7	25°47	2° 0	17°25	16°46	6°15	4°53	M13
T 14	14 2 19	2°17'46	26°16	22°38	15°24	17°37	27°51	17°48	13° 9	25°46	2° 0	17°15	16°43	6°21	4°58	T 14
W15	14 6 15	3°15'58	11°II15	23°24	16°37	18° 7	27°49	17°46	13°10	25°45	2° 0	17° 6	16°40	6°28	5° 2	W15
T 16	14 10 12	4°14'09	25°51	24° 6	17°51	18°36	27°48	17°43	13°12	25°44	2° 1	16°59	16°37	6°35	5° 7	T 16
F 17	14 14 8	5°12'17	9°58	24°42	19° 5	19° 6	27°46	17°41	13°14	25°42	2° 1	16°55	16°33	6°41	5°11	F 17
S 18	14 18 5	6°10'24	23°37	25°13	20°18	19°35	27°43	17°38	13°16	25°41	2° 1	16°53	16°30	6°48	5°16	S 18
S 19	14 22 2	7° 8'29	6°II49	25°39	21°32	20° 4	27°41	17°36	13°18	25°40	2° 2	16°D52	16°27	6°55	5°21	S 19
M20	14 25 58	8° 6'31	19°38	25°59	22°45	20°32	27°39	17°34	13°20	25°39	2° 2	16°R52	16°24	7° 2	5°26	M20
T 21	14 29 55	9° 4'32	2°II 7	26°14	23°59	21° 1	27°36	17°32	13°22	25°38	2° 2	16°52	16°21	7° 8	5°30	T 21
W22	14 33 51	10° 2'30	14°22	26°24	25°13	21°29	27°33	17°30	13°24	25°37	2° 3	16°49	16°18	7°15	5°35	W22
T 23	14 37 48	11° 0'27	26°26	26°R29	26°26	21°56	27°30	17°28	13°26	25°36	2° 3	16°44	16°14	7°22	5°40	T 23
F 24	14 41 44	11°58'22	8°24	26°29	27°40	22°24	27°27	17°26	13°28	25°35	2° 4	16°37	16°11	7°28	5°45	F 24
S 25	14 45 41	12°56'15	20°18	26°24	28°53	22°51	27°23	17°25	13°30	25°34	2° 4	16°26	16° 8	7°35	5°50	S 25
S 26	14 49 37	13°54'07	2°II10	26°14	0° 7	23°19	27°20	17°23	13°32	25°33	2° 5	16°13	16° 5	7°42	5°54	S 26
M27	14 53 34	14°51'57	14° 3	25°59	1°20	23°45	27°16	17°21	13°34	25°32	2° 5	15°59	16° 2	7°49	5°59	M27
T 28	14 57 30	15°49'45	25°57	25°41	2°34	24°12	27°12	17°20	13°37	25°31	2° 6	15°45	15°59	7°55	6° 4	T 28
W29	15 1 27	16°47'33	7°Y54	25°19	3°47	24°38	27° 8	17°19	13°39	25°30	2° 6	15°32	15°55	8° 2	6° 9	W29
T 30	15 5 24	17°45'19	19°Y56	24°53	5° 1	25° 4	27° 4	17°18	13°41	25°29	2° 7	15°21	15°52	8° 9	6°II14	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	7n42	24s50	4s58	14n48	1n34	1s37	1s32	23s46	0s42	23s 4	0n26	6n50	2n28	23n19	0n26	2n55	1n28	25n51	6n15	15s23	15s40	17s55	16n44	4s21			
T 2	8 5	26 46	4 40	15 32	1 44	1 8	1 32	23 45	0 44	23 4	0 26	6 51	2 28	23 19	0 26	2 55	1 28	25 51	6 14	15 26	15 41	17 58	16 45	4 21			
F 3	8 27	27 29	4 10	16 14	1 53	0 39	1 32	23 44	0 46	23 4	0 26	6 52	2 27	23 19	0 26	2 56	1 28	25 51	6 14	15 28	15 42	18 0	16 46	4 21			
S 4	8 48	26 52	3 27	16 54	2 2	0 10	1 32	23 43	0 48	23 4	0 26	6 54	2 27	23 19	0 26	2 56	1 28	25 51	6 14	15 29	15 43	18 3	16 47	4 21			
S 5	9 10	24 55	2 34	17 31	2 10	0n19	1 32	23 42	0 50	23 4	0 26	6 55	2 27	23 19	0 26	2 57	1 28	25 51	6 14	15 30	15 44	18 5	16 48	4 21			
M 6	9 32	21 39	1 33	18 6	2 18	0 49	1 32	23 41	0 52	23 4	0 26	6 56	2 27	23 19	0 26	2 57	1 28	25 51	6 14	15 30	15 45	18 7	16 48	4 21			
T 7	9 53	17 14	0 24	18 38	2 24	1 18	1 32	23 40	0 54	23 4	0 26	6 57	2 27	23 19	0 26	2 58	1 28	25 51	6 14	15 30	15 46	18 10	16 49	4 21			
W 8	10 14	11 48	0n48	19 8	2 30	1 47	1 32	23 38	0 56	23 4	0 26	6 58	2 27	23 19	0 26	2 58	1 28	25 51	6 14	15 30	15 47	18 12	16 50	4 21			
T 9	10 36	5 37	1 59	19 35	2 35	2 17	1 32	23 37	0 58	23 4	0 26	6 59	2 27	23 18	0 26	2 59	1 28	25 50	6 14	15 30	15 48	18 15	16 51	4 21			
F 10	10 57	1n 4	3 5	19 59	2 39	2 46	1 31	23 36	1 0	23 4	0 25	7 0	2 27	23 18	0 26	2 59	1 28	25 50	6 14	15 32	15 49	18 17	16 52	4 20			
S 11	11 17	7 51	4 1	20 20	2 42	3 15	1 31	23 34	1 2	23 4	0 25	7 2	2 26	23 18	0 26	3 0	1 28	25 50	6 14	15 34	15 50	18 20	16 53	4 20			
S 12	11 38	14 18	4 40	20 39	2 44	3 44	1 30	23 33	1 5	23 4	0 25	7 3	2 26	23 18	0 26	3 0	1 27	25 50	6 13	15 36	15 51	18 22	16 54	4 20			
M13	11 58	19 55	4 59	20 55	2 45	4 13	1 30	23 31	1 7	23 4	0 25	7 3	2 26	23 18	0 26	3 1	1 27	25 50	6 13	15 40	15 51	18 25	16 55	4 20			
T 14	12 18	24 12	4 58	21 9	2 46	4 42	1 29	23 30	1 9	23 4	0 25	7 4	2 26	23 18	0 26	3 1	1 27	25 50	6 13	15 43	15 52	18 27	16 55	4 20			
W15	12 38	26 44	4 35	21 20	2 45	5 11	1 29	23 28	1 12	23 4	0 25	7 5	2 26	23 17	0 26	3 2	1 27	25 50	6 13	15 45	15 53	18 29	16 56	4 20			
T 16	12 58	27 22	3 55	21 29	2 42	5 40	1 28	23 26	1 14	23 4	0 25	7 6	2 26	23 17	0 26	3 2	1 27	25 49	6 13	15 48	15 54	18 32	16 57	4 20			
F 17	13 18	26 10	3 2	21 35	2 39	6 9	1 27	23 24	1 16	23 5	0 25	7 7	2 26	23 17	0 26	3 3	1 27	25 49	6 13	15 49	15 55	18 34	16 58	4 20			
S 18	13 37	23 24	2 0	21 38	2 35	6 37	1 26	23 23	1 19	23 5	0 25	7 8	2 25	23 17	0 26	3 3	1 27	25 49	6 13	15 49	15 56	18 37	16 59	4 20			
S 19	13 56	19 29	0 53	21 39	2 29	7 6	1 25	23 21	1 21	23 5	0 25	7 8	2 25	23 17	0 26	3 4	1 27	25 49	6 13	15 50	15 57	18 39	17 0	4 20			
M20	14 15	14 45	0s15	21 37	2 23	7 34	1 24	23 19	1 24	23 5	0 25	7 9	2 25	23 16	0 26	3 4	1 27	25 49	6 13	15 50	15 58	18 41	17 1	4 20			
T 21	14 34	9 31	1 20	21 33	2 15	8 2	1 23	23 17	1 26	23 5	0 25	7 10	2 25	23 16	0 26	3 5	1 27	25 49	6 13	15 50	15 59	18 44	17 2	4 20			
W22	14 52	4 1	2 20	21 27	2 6	8 30	1 22	23 15	1 29	23 5	0 25	7 10	2 25	23 16	0 26	3 5	1 27	25 48	6 12	15 51	16 0	18 46	17 2	4 20			
T 23	15 11	1s32	3 13	21 18	1 56	8 58	1 21	23 13	1 31	23 5	0 25	7 11	2 25	23 16	0 26	3 5	1 27	25 48	6 12	15 52	16 1	18 49	17 3	4 20			
F 24	15 28	6 57	3 56	21 8	1 45	9 26	1 20	23 11	1 34	23 5	0 25	7 12	2 24	23 15	0 26	3 6	1 27	25 48	6 12	15 54	16 2	18 51	17 4	4 20			
S 25	15 46	12 6	4 29	20 54	1 33	9 53	1 19	23 10	1 37	23 5	0 25	7 12	2 24	23 15	0 26	3 6	1 27	25 48	6 12	15 58	16 3	18 53	17 5	4 20			
S 26	16 4	16 48	4 51	20 39	1 19	10 20	1 18	23 8	1 39	23 5	0 25	7 13	2 24	23 15	0 26	3 7	1 27	25 48	6 12	16 1	16 4	18 56	17 6	4 19			
M27	16 21	20 51	4 59	20 22	1 5	10 47	1 16	23 6	1 42	23 5	0 24	7 13	2 24	23 15	0 26	3 7	1 27	25 47	6 12	16 6	16 5	18 58	17 7	4 19			
T 28	16 38	24 4	4 55	20 3	0 50	11 14	1 15	23 4	1 45	23 5	0 24	7 13	2 24	23 15	0 26	3 7	1 27	25 47	6 12	16 10	16 6	19 0	17 8	4 19			
W29	16 54	26 15	4 37	19 42	0 34	11 40	1 13	23 2	1 48	23 5	0 24	7 14	2 24	23 14	0 26	3 8	1 27	25 47	6 12	16 14	16 7	19 3	17 8	4 19			
T 30	17n11	27s14	4s 7	19n20	0n18	12n 6	1s12	23s 0	1s51	23s 5	0n24	7n14	2n23	23n14	0n26	3n 8	1n27	25n47	6n12	16s17	16s 8	19s 5	17n 9	4s19			

ASTRODIENST EPHEMERIS for the year 1450

geocentric

MAY 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	15 9 20	18 ⁸ 43'03	2 ³ 4	24°R25	6 ⁸ 15	25 ³ 30	26°R59	17°R17	13 ³ 44	25°R28	2 ⁰ 8	15°R13	15 ³ 49	8 ¹ 16	6 ¹ 19	F 1
S 2	15 13 17	19°40'47	14°21	23 ⁸ 54	7°28	25°55	26 ³ 55	17 ¹ 16	13°46	25 ¹ 27	2° 8	15 ³ 8	15°46	8°22	6°24	S 2
S 3	15 17 13	20°38'29	26°50	23°21	8°42	26°20	26°50	17°15	13°49	25°26	2° 9	15° 5	15°43	8°29	6°29	S 3
M 4	15 21 10	21°36'10	9 ³ 35	22°48	9°55	26°45	26°45	17°14	13°51	25°26	2°10	15° 4	15°39	8°36	6°34	M 4
T 5	15 25 6	22°33'50	22°39	22°13	11° 9	27° 9	26°40	17°13	13°54	25°25	2°11	15° 4	15°36	8°42	6°39	T 5
W 6	15 29 3	23°31'29	6 ¹ 7	21°39	12°22	27°33	26°35	17°13	13°56	25°24	2°11	15° 4	15°33	8°49	6°44	W 6
T 7	15 33 0	24°29'07	20° 1	21° 5	13°36	27°57	26°30	17°12	13°59	25°24	2°12	15° 2	15°30	8°56	6°49	T 7
F 8	15 36 56	25°26'44	4 ¹ 21	20°32	14°49	28°20	26°24	17°12	14° 2	25°23	2°13	14°58	15°27	9° 3	6°55	F 8
S 9	15 40 53	26°24'20	19° 6	20° 1	16° 3	28°43	26°19	17°11	14° 4	25°22	2°14	14°51	15°24	9° 9	7° 0	S 9
S 10	15 44 49	27°21'55	4 ⁸ 10	19°32	17°17	29° 5	26°13	17°11	14° 7	25°22	2°15	14°42	15°20	9°16	7° 5	S 10
M 11	15 48 46	28°19'29	19°25	19° 6	18°30	29°27	26° 7	17°D11	14°10	25°21	2°16	14°32	15°17	9°23	7°10	M 11
T 12	15 52 42	29°17'02	4 ¹ 38	18°43	19°44	29°49	26° 1	17°11	14°13	25°21	2°17	14°21	15°14	9°29	7°15	T 12
W 13	15 56 39	0 ¹ 14'34	19°41	18°23	20°57	0 ³ 10	25°55	17°11	14°16	25°20	2°18	14°12	15°11	9°36	7°20	W 13
T 14	16 0 35	1°12'05	4 ² 22	18° 7	22°11	0°31	25°49	17°12	14°18	25°20	2°19	14° 5	15° 8	9°43	7°25	T 14
F 15	16 4 32	2° 9'35	18°37	17°55	23°25	0°51	25°42	17°12	14°21	25°19	2°20	14° 0	15° 5	9°50	7°31	F 15
S 16	16 8 29	3° 7'03	2 ⁰ 23	17°47	24°38	1°11	25°36	17°12	14°24	25°19	2°21	13°58	15° 1	9°56	7°36	S 16
S 17	16 12 25	4° 4'30	15°41	17°D44	25°52	1°31	25°29	17°13	14°27	25°18	2°22	13°D58	14°58	10° 3	7°41	S 17
M 18	16 16 22	5° 1'55	28°33	17°45	27° 5	1°50	25°23	17°13	14°30	25°18	2°23	13°58	14°55	10°10	7°46	M 18
T 19	16 20 18	5°59'20	11 ¹ 17	17°50	28°19	2° 8	25°16	17°14	14°33	25°18	2°24	13°R58	14°52	10°17	7°51	T 19
W 20	16 24 15	6°56'43	23°18	18° 0	29°32	2°26	25° 9	17°15	14°36	25°17	2°25	13°57	14°49	10°23	7°57	W 20
T 21	16 28 11	7°54'05	5 ² 20	18°14	0 ¹ 46	2°44	25° 2	17°16	14°39	25°17	2°26	13°53	14°45	10°30	8° 2	T 21
F 22	16 32 8	8°51'26	17°16	18°33	2° 0	3° 1	24°55	17°17	14°43	25°17	2°27	13°47	14°42	10°37	8° 7	F 22
S 23	16 36 4	9°48'46	29° 8	18°56	3°13	3°17	24°48	17°18	14°46	25°17	2°28	13°39	14°39	10°43	8°12	S 23
S 24	16 40 1	10°46'04	10 ¹ 59	19°24	4°27	3°33	24°41	17°19	14°49	25°17	2°29	13°29	14°36	10°50	8°17	S 24
M 25	16 43 58	11°43'23	22°54	19°56	5°40	3°49	24°34	17°21	14°52	25°16	2°31	13°18	14°33	10°57	8°23	M 25
T 26	16 47 54	12°40'40	4 ² 52	20°32	6°54	4° 4	24°26	17°22	14°55	25°16	2°32	13° 7	14°30	11° 4	8°28	T 26
W 27	16 51 51	13°37'57	16°56	21°12	8° 7	4°18	24°19	17°24	14°58	25°16	2°33	12°56	14°26	11°10	8°33	W 27
T 28	16 55 47	14°35'13	29° 7	21°57	9°21	4°32	24°12	17°25	15° 2	25°D16	2°34	12°47	14°23	11°17	8°38	T 28
F 29	16 59 44	15°32'28	11 ¹ 37	22°45	10°35	4°45	24° 4	17°27	15° 5	25°16	2°36	12°41	14°20	11°24	8°43	F 29
S 30	17 3 40	16°29'43	23°55	23°37	11°48	4°58	23°57	17°29	15° 8	25°16	2°37	12°37	14°17	11°31	8°49	S 30
S 31	17 7 37	17 ¹ 26'58	6 ³ 35	24 ⁸ 33	13 ¹ 2	5 ³ 10	23 ³ 49	17 ¹ 31	15 ² 12	25 ¹ 16	2 ⁰ 38	12°D35	14 ³ 14	11 ¹ 37	8 ¹ 54	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	17n27	26s56	3s26	18n57	0n 1	12n32	1s10	22s58	1s54	23s 5	0n24	7n14	2n23	23n14	0n26	3n 8	1n27	25n46	6n12	16s19	16s 9	19s 7	17n10	4s19	
S 2	17 43	25 18	2 35	18 33	0s16	12 58	1 9	22 56	1 57	23 4	0 24	7 14	2 23	23 13	0 26	3 8	1 27	25 46	6 12	16 21	16 10	19 10	17 11	4 19	
S 3	17 58	22 24	1 35	18 8	0 34	13 23	1 7	22 54	2 0	23 4	0 24	7 15	2 23	23 13	0 26	3 9	1 27	25 46	6 11	16 22	16 11	19 12	17 12	4 19	
M 4	18 13	18 22	0 29	17 42	0 51	13 48	1 5	22 53	2 3	23 4	0 24	7 15	2 23	23 13	0 26	3 9	1 27	25 46	6 11	16 22	16 11	19 14	17 13	4 19	
T 5	18 28	13 22	0n40	17 17	1 8	14 13	1 3	22 51	2 6	23 4	0 24	7 15	2 22	23 13	0 26	3 9	1 27	25 45	6 11	16 22	16 12	19 17	17 13	4 19	
W 6	18 43	7 36	1 49	16 51	1 26	14 37	1 2	22 49	2 9	23 4	0 24	7 15	2 22	23 12	0 26	3 10	1 27	25 45	6 11	16 22	16 13	19 19	17 14	4 19	
T 7	18 57	1 18	2 53	16 26	1 42	15 1	1 0	22 48	2 12	23 4	0 24	7 15	2 22	23 12	0 26	3 10	1 27	25 45	6 11	16 23	16 14	19 21	17 15	4 19	
F 8	19 11	5n14	3 49	16 2	1 58	15 25	0 58	22 46	2 15	23 4	0 24	7 15	2 22	23 12	0 26	3 10	1 27	25 45	6 11	16 24	16 15	19 24	17 16	4 20	
S 9	19 25	11 41	4 31	15 39	2 14	15 48	0 56	22 45	2 19	23 4	0 24	7 15	2 22	23 12	0 26	3 10	1 27	25 44	6 11	16 26	16 16	19 26	17 17	4 20	
S 10	19 38	17 35	4 56	15 17	2 28	16 11	0 54	22 43	2 22	23 4	0 23	7 15	2 21	23 11	0 26	3 10	1 27	25 44	6 11	16 28	16 17	19 28	17 17	4 20	
M11	19 51	22 26	5 0	14 57	2 42	16 33	0 52	22 42	2 25	23 4	0 23	7 15	2 21	23 11	0 26	3 11	1 27	25 44	6 11	16 31	16 18	19 30	17 18	4 20	
T 12	20 4	25 45	4 43	14 39	2 54	16 55	0 50	22 40	2 29	23 4	0 23	7 14	2 21	23 11	0 26	3 11	1 27	25 43	6 11	16 34	16 19	19 33	17 19	4 20	
W13	20 16	27 12	4 6	14 22	3 6	17 17	0 48	22 39	2 32	23 4	0 23	7 14	2 21	23 10	0 26	3 11	1 27	25 43	6 11	16 37	16 20	19 35	17 20	4 20	
T 14	20 28	26 40	3 13	14 8	3 16	17 38	0 46	22 38	2 36	23 4	0 23	7 14	2 21	23 10	0 26	3 11	1 27	25 43	6 11	16 39	16 21	19 37	17 21	4 20	
F 15	20 39	24 22	2 10	13 56	3 25	17 58	0 44	22 37	2 39	23 4	0 23	7 14	2 20	23 10	0 26	3 11	1 26	25 43	6 10	16 41	16 22	19 39	17 21	4 20	
S 16	20 51	20 41	1 1	13 46	3 34	18 19	0 42	22 36	2 43	23 4	0 23	7 13	2 20	23 9	0 26	3 11	1 26	25 42	6 10	16 41	16 23	19 42	17 22	4 20	
S 17	21 2	16 2	0s 9	13 39	3 40	18 38	0 40	22 35	2 47	23 3	0 23	7 13	2 20	23 9	0 26	3 12	1 26	25 42	6 10	16 41	16 24	19 44	17 23	4 20	
M18	21 12	10 49	1 17	13 33	3 46	18 58	0 37	22 35	2 50	23 3	0 23	7 12	2 20	23 9	0 26	3 12	1 26	25 42	6 10	16 41	16 25	19 46	17 24	4 20	
T 19	21 22	5 18	2 19	13 31	3 51	19 16	0 35	22 34	2 54	23 3	0 23	7 12	2 20	23 8	0 26	3 12	1 26	25 41	6 10	16 41	16 26	19 48	17 24	4 20	
W20	21 32	0s17	3 13	13 30	3 54	19 35	0 33	22 34	2 58	23 3	0 22	7 11	2 19	23 8	0 26	3 12	1 26	25 41	6 10	16 42	16 26	19 51	17 25	4 20	
T 21	21 42	5 46	3 58	13 32	3 56	19 52	0 31	22 33	3 2	23 3	0 22	7 11	2 19	23 8	0 26	3 12	1 26	25 41	6 10	16 43	16 27	19 53	17 26	4 20	
F 22	21 51	10 58	4 31	13 36	3 57	20 10	0 28	22 33	3 6	23 3	0 22	7 10	2 19	23 7	0 26	3 12	1 26	25 40	6 10	16 44	16 28	19 55	17 27	4 20	
S 23	21 59	15 46	4 53	13 42	3 58	20 26	0 26	22 33	3 9	23 3	0 22	7 10	2 19	23 7	0 26	3 12	1 26	25 40	6 10	16 47	16 29	19 57	17 27	4 20	
S 24	22 8	19 57	5 3	13 50	3 57	20 42	0 24	22 33	3 13	23 2	0 22	7 9	2 19	23 7	0 26	3 12	1 26	25 40	6 10	16 50	16 30	20 0	17 28	4 21	
M25	22 16	23 22	4 59	14 0	3 55	20 58	0 21	22 33	3 17	23 2	0 22	7 8	2 18	23 6	0 26	3 12	1 26	25 39	6 10	16 53	16 31	20 2	17 29	4 21	
T 26	22 23	25 47	4 42	14 12	3 52	21 13	0 19	22 34	3 21	23 2	0 22	7 7	2 18	23 6	0 26	3 12	1 26	25 39	6 10	16 56	16 32	20 4	17 29	4 21	
W27	22 30	27 3	4 12	14 26	3 49	21 27	0 17	22 34	3 26	23 2	0 22	7 7	2 18	23 6	0 26	3 12	1 26	25 39	6 10	16 59	16 33	20 6	17 30	4 21	
T 28	22 37	27 1	3 30	14 42	3 44	21 41	0 14	22 35	3 30	23 2	0 21	7 6	2 18	23 5	0 26	3 12	1 26	25 38	6 10	17 1	16 34	20 8	17 31	4 21	
F 29	22 44	25 39	2 38	14 59	3 39	21 54	0 12	22 35	3 34	23 1	0 21	7 5	2 18	23 5	0 26	3 12	1 26	25 38	6 10	17 3	16 35	20 10	17 31	4 21	
S 30	22 49	23 0	1 38	15 17	3 33	22 7	0 10	22 36	3 38	23 1	0 21	7 4	2 17	23 4	0 26	3 12	1 26	25 38	6 10	17 4	16 36	20 13	17 32	4 21	
S 31	22n55	19s12	0s32	15n37	3s27	22n19	0s 7	22s38	3s42	23s 1	0n21	7n 3	2n17	23n 4	0n26	3n12	1n26	25n37	6n10	17s 5	16s37	20s15	17n33	4s21	

ASTRODIENST EPHEMERIS for the year 1450

geocentric

JUNE 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	17 11 33	18II24'12	19♍29	25♂33	14II16	5♍21	23°R42	17♎33	15♍15	25♎16	2♌40	12♍35	14♍11	11♎44	8II59	M 1
T 2	17 15 30	19°21'25	2♎39	26°37	15°29	5°32	23°♌34	17°35	15°18	25°17	2°41	12°36	14° 7	11°51	9° 4	T 2
W 3	17 19 27	20°18'39	16° 7	27°44	16°43	5°42	23°26	17°37	15°22	25°17	2°42	12°R37	14° 4	11°57	9° 9	W 3
T 4	17 23 23	21°15'52	29°56	28°55	17°56	5°51	23°19	17°40	15°25	25°17	2°44	12°37	14° 1	12° 4	9°14	T 4
F 5	17 27 20	22°13'06	14♎5	0II9	19°10	6° 0	23°11	17°42	15°28	25°17	2°45	12°35	13°58	12°11	9°19	F 5
S 6	17 31 16	23°10'19	28°35	1°27	20°24	6° 7	23° 3	17°45	15°32	25°17	2°46	12°31	13°55	12°18	9°25	S 6
S 7	17 35 13	24° 7'32	13♌20	2°48	21°37	6°15	22°56	17°47	15°35	25°18	2°48	12°25	13°51	12°24	9°30	S 7
M 8	17 39 9	25° 4'45	28°16	4°12	22°51	6°21	22°48	17°50	15°39	25°18	2°49	12°18	13°48	12°31	9°35	M 8
T 9	17 43 6	26° 1'58	13II13	5°40	24° 5	6°27	22°40	17°53	15°42	25°18	2°51	12°11	13°45	12°38	9°40	T 9
W10	17 47 2	26°59'11	28° 3	7°12	25°19	6°32	22°33	17°56	15°46	25°19	2°52	12° 5	13°42	12°45	9°45	W10
T 11	17 50 59	27°56'24	12♍37	8°46	26°32	6°37	22°25	17°59	15°49	25°19	2°54	12° 0	13°39	12°51	9°50	T 11
F 12	17 54 56	28°53'36	26°49	10°24	27°46	6°40	22°17	18° 2	15°53	25°20	2°55	11°58	13°36	12°58	9°55	F 12
S 13	17 58 52	29°50'49	10♌36	12° 5	29° 0	6°43	22°10	18° 5	15°56	25°20	2°57	11°D57	13°32	13° 5	10° 0	S 13
S 14	18 2 49	0♍48'00	23°56	13°50	0♍13	6°45	22° 2	18° 8	16° 0	25°21	2°58	11°57	13°29	13°11	10° 5	S 14
M15	18 6 45	1°45'11	6♎52	15°37	1°27	6°46	21°55	18°11	16° 4	25°21	3° 0	11°58	13°26	13°18	10°10	M15
T 16	18 10 42	2°42'22	19°26	17°27	2°41	6°R47	21°47	18°15	16° 7	25°22	3° 1	12° 0	13°23	13°25	10°15	T 16
W17	18 14 38	3°39'33	1♌43	19°20	3°55	6°47	21°40	18°18	16°11	25°22	3° 3	12°R 1	13°20	13°32	10°20	W17
T 18	18 18 35	4°36'43	13°47	21°16	5° 8	6°46	21°33	18°22	16°14	25°23	3° 5	12° 0	13°17	13°38	10°25	T 18
F 19	18 22 32	5°33'53	25°43	23°14	6°22	6°44	21°25	18°26	16°18	25°24	3° 6	11°58	13°13	13°45	10°30	F 19
S 20	18 26 28	6°31'03	7♎36	25°14	7°36	6°42	21°18	18°29	16°22	25°24	3° 8	11°55	13°10	13°52	10°35	S 20
S 21	18 30 25	7°28'13	19°29	27°17	8°50	6°39	21°11	18°33	16°25	25°25	3° 9	11°50	13° 7	13°58	10°39	S 21
M22	18 34 21	8°25'23	1♌26	29°21	10° 3	6°35	21° 4	18°37	16°29	25°26	3°11	11°44	13° 4	14° 5	10°44	M22
T 23	18 38 18	9°22'33	13°30	1♍27	11°17	6°30	20°57	18°41	16°32	25°27	3°13	11°39	13° 1	14°12	10°49	T 23
W24	18 42 14	10°19'43	25°43	3°34	12°31	6°25	20°50	18°45	16°36	25°28	3°14	11°33	12°57	14°19	10°54	W24
T 25	18 46 11	11°16'54	8♌6	5°42	13°45	6°18	20°43	18°49	16°40	25°28	3°16	11°29	12°54	14°25	10°58	T 25
F 26	18 50 7	12°14'04	20°41	7°51	14°59	6°12	20°37	18°54	16°43	25°29	3°18	11°26	12°51	14°32	11° 3	F 26
S 27	18 54 4	13°11'15	3♍27	10° 0	16°12	6° 4	20°30	18°58	16°47	25°30	3°19	11°25	12°48	14°39	11° 8	S 27
S 28	18 58 1	14° 8'26	16°26	12° 9	17°26	5°56	20°24	19° 2	16°51	25°31	3°21	11°D25	12°45	14°46	11°13	S 28
M29	19 1 57	15° 5'38	29°38	14°18	18°40	5°47	20°17	19° 7	16°54	25°32	3°23	11°25	12°42	14°52	11°17	M29
T 30	19 5 54	16♍2'50	13♎3	16♍26	19♍54	5♍37	20°♌11	19♎11	16♍58	25♎33	3♌24	11♍27	12♍38	14♎59	11II22	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n 0	14s26	0n37	15n58	3s20	22n30	0s 5	22s39	3s47	23s 1	0n21	7n 2	2n17	23n 4	0n26	3n12	1n26	25n37	6n 9	17s 5	16s38	20s17	17n33	4s22	
T 2	23 5	8 55	1 46	16 21	3 12	22 41	0 3	22 40	3 51	23 0	0 21	7 1	2 17	23 3	0 26	3 12	1 26	25 36	6 9	17 5	16 39	20 19	17 34	4 22	
W 3	23 9	2 53	2 50	16 44	3 3	22 51	0 0	22 42	3 55	23 0	0 21	7 0	2 17	23 3	0 26	3 12	1 26	25 36	6 9	17 4	16 39	20 21	17 35	4 22	
T 4	23 13	3n26	3 46	17 8	2 54	23 0	0n 2	22 44	4 0	23 0	0 21	6 59	2 16	23 2	0 26	3 11	1 26	25 36	6 9	17 4	16 40	20 23	17 35	4 22	
F 5	23 17	9 43	4 30	17 33	2 45	23 9	0 5	22 46	4 4	23 0	0 20	6 58	2 16	23 2	0 26	3 11	1 26	25 35	6 9	17 5	16 41	20 26	17 36	4 22	
S 6	23 20	15 38	4 58	17 59	2 35	23 17	0 7	22 48	4 8	22 59	0 20	6 57	2 16	23 2	0 26	3 11	1 26	25 35	6 9	17 6	16 42	20 28	17 36	4 22	
S 7	23 23	20 46	5 7	18 25	2 25	23 24	0 9	22 51	4 13	22 59	0 20	6 55	2 16	23 1	0 26	3 11	1 26	25 35	6 9	17 8	16 43	20 30	17 37	4 22	
M 8	23 25	24 38	4 55	18 51	2 14	23 31	0 12	22 53	4 17	22 59	0 20	6 54	2 16	23 1	0 26	3 11	1 26	25 34	6 9	17 10	16 44	20 32	17 38	4 23	
T 9	23 27	26 49	4 24	19 18	2 3	23 37	0 14	22 56	4 22	22 59	0 20	6 53	2 15	23 0	0 26	3 11	1 25	25 34	6 9	17 12	16 45	20 34	17 38	4 23	
W10	23 29	27 4	3 34	19 45	1 52	23 42	0 16	22 59	4 26	22 58	0 20	6 52	2 15	23 0	0 26	3 10	1 25	25 33	6 9	17 13	16 46	20 36	17 39	4 23	
T 11	23 30	25 26	2 32	20 11	1 40	23 47	0 19	23 3	4 31	22 58	0 20	6 50	2 15	23 0	0 26	3 10	1 25	25 33	6 9	17 15	16 47	20 38	17 39	4 23	
F 12	23 30	22 11	1 21	20 37	1 28	23 51	0 21	23 6	4 35	22 58	0 19	6 49	2 15	22 59	0 26	3 10	1 25	25 33	6 9	17 15	16 48	20 40	17 40	4 23	
S 13	23 31	17 45	0 7	21 3	1 16	23 54	0 23	23 10	4 40	22 58	0 19	6 47	2 15	22 59	0 26	3 10	1 25	25 32	6 9	17 16	16 49	20 43	17 40	4 24	
S 14	23 31	12 34	1s 5	21 28	1 4	23 56	0 26	23 14	4 45	22 57	0 19	6 46	2 15	22 58	0 26	3 10	1 25	25 32	6 9	17 16	16 49	20 45	17 41	4 24	
M15	23 30	6 59	2 11	21 52	0 52	23 58	0 28	23 18	4 49	22 57	0 19	6 45	2 14	22 58	0 26	3 9	1 25	25 32	6 9	17 15	16 50	20 47	17 41	4 24	
T 16	23 29	1 18	3 9	22 15	0 40	23 59	0 30	23 22	4 54	22 57	0 19	6 43	2 14	22 58	0 26	3 9	1 25	25 31	6 9	17 15	16 51	20 49	17 42	4 24	
W17	23 28	4s19	3 57	22 37	0 28	24 0	0 32	23 26	4 58	22 56	0 19	6 42	2 14	22 57	0 26	3 9	1 25	25 31	6 9	17 15	16 52	20 51	17 42	4 24	
T 18	23 26	9 40	4 34	22 57	0 16	23 59	0 34	23 31	5 3	22 56	0 19	6 40	2 14	22 57	0 26	3 8	1 25	25 30	6 9	17 15	16 53	20 53	17 43	4 25	
F 19	23 24	14 36	4 58	23 16	0 4	23 58	0 37	23 36	5 7	22 56	0 18	6 38	2 14	22 56	0 26	3 8	1 25	25 30	6 9	17 15	16 54	20 55	17 43	4 25	
S 20	23 21	18 58	5 10	23 33	0n 7	23 56	0 39	23 41	5 12	22 55	0 18	6 37	2 13	22 56	0 26	3 8	1 25	25 30	6 9	17 16	16 55	20 57	17 44	4 25	
S 21	23 18	22 35	5 8	23 47	0 18	23 54	0 41	23 46	5 16	22 55	0 18	6 35	2 13	22 55	0 26	3 8	1 25	25 29	6 9	17 18	16 56	20 59	17 44	4 25	
M22	23 15	25 17	4 53	23 59	0 29	23 51	0 43	23 51	5 20	22 55	0 18	6 33	2 13	22 55	0 26	3 7	1 25	25 29	6 9	17 19	16 57	21 1	17 44	4 26	
T 23	23 11	26 52	4 24	24 9	0 39	23 47	0 45	23 56	5 25	22 54	0 18	6 32	2 13	22 54	0 26	3 7	1 25	25 28	6 9	17 21	16 58	21 3	17 45	4 26	
W24	23 7	27 10	3 44	24 16	0 48	23 42	0 47	24 2	5 29	22 54	0 18	6 30	2 13	22 54	0 26	3 6	1 25	25 28	6 9	17 22	16 59	21 5	17 45	4 26	
T 25	23 2	26 7	2 52	24 20	0 57	23 37	0 49	24 8	5 33	22 54	0 17	6 28	2 13	22 54	0 26	3 6	1 25	25 28	6 9	17 23	16 59	21 7	17 46	4 26	
F 26	22 57	23 45	1 51	24 22	1 6	23 31	0 51	24 13	5 38	22 53	0 17	6 26	2 12	22 53	0 26	3 6	1 25	25 27	6 9	17 24	17 0	21 9	17 46	4 27	
S 27	22 51	20 9	0 43	24 21	1 13	23 24	0 53	24 19	5 42	22 53	0 17	6 24	2 12	22 53	0 26	3 5	1 25	25 27	6 9	17 25	17 1	21 11	17 46	4 27	
S 28	22 46	15 31	0n28	24 17	1 20	23 17	0 55	24 25	5 46	22 53	0 17	6 22	2 12	22 52	0 26	3 5	1 25	25 26	6 9	17 25	17 2	21 13	17 47	4 27	
M29	22 39	10 6	1 38	24 10	1 26	23 18	0 57	24 31	5 50	22 53	0 17	6 21	2 12	22 52	0 26	3 4	1 25	25 26	6 9	17 24	17 3	21 15	17 47	4 27	
T 30	22n33	4s 9	2n45	24n 1	1n32	23n 0	0n58	24s38	5s53	22s52	0n17	6n19	2n12	22n51	0n26	3n 4	1n25	25n26	6n 9	17s24	17s 4	21s17	17n48	4s28	

ASTRODIENST EPHEMERIS for the year 1450

geocentric

JULY 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	19 9 50	17°03'00"	26°41'41"	18°53'34"	21°58'08"	5°R27	20°R 5	19°16'16"	17°52'02"	25°16'34"	3°02'26"	11°28'28"	12°35'35"	15°16'06"	11°11'26"	W 1
T 2	19 13 47	17°57'16"	10°46'34"	20°41'22"	22°22'22"	5°16'16"	19°17'59"	19°21'21"	17°05'05"	25°35'35"	3°28'28"	11°29'29"	12°32'32"	15°12'12"	11°31'31"	T 2
F 3	19 17 43	18°54'31"	24°39'24"	22°46'22"	23°35'23"	5°05'05"	19°53'53"	19°25'25"	17°09'09"	25°36'36"	3°30'30"	11°R29	12°29'29"	15°19'19"	11°35'35"	F 3
S 4	19 21 40	19°51'46"	8°57'57"	24°51'24"	24°49'49"	4°53'53"	19°47'47"	19°30'30"	17°13'13"	25°37'37"	3°31'31"	11°28'28"	12°26'26"	15°26'26"	11°40'40"	S 4
S 5	19 25 36	20°49'02"	23°23'23"	26°54'26"	26°03'03"	4°40'40"	19°41'41"	19°35'35"	17°16'16"	25°39'39"	3°33'33"	11°27'27"	12°23'23"	15°33'33"	11°44'44"	S 5
M 6	19 29 33	21°46'19"	7°11'55"	28°56'28"	27°17'17"	4°27'27"	19°36'36"	19°40'40"	17°20'20"	25°40'40"	3°35'35"	11°24'24"	12°19'19"	15°39'39"	11°48'48"	M 6
T 7	19 33 30	22°43'37"	22°26'22"	0°05'56"	28°31'28"	4°13'13"	19°31'31"	19°45'45"	17°24'24"	25°41'41"	3°36'36"	11°22'22"	12°16'16"	15°46'46"	11°53'53"	T 7
W 8	19 37 26	23°40'56"	6°52'52"	2°55'29"	29°45'29"	3°59'59"	19°25'25"	19°50'50"	17°27'27"	25°42'42"	3°38'38"	11°20'20"	12°13'13"	15°53'53"	11°57'57"	W 8
T 9	19 41 23	24°38'16"	21°05'05"	4°52'04"	0°05'59"	3°45'45"	19°20'20"	19°56'56"	17°31'31"	25°43'43"	3°40'40"	11°18'18"	12°10'10"	16°00'00"	12°01'01"	T 9
F 10	19 45 19	25°35'36"	5°03'03"	6°48'29"	2°13'13"	3°30'30"	19°15'15"	20°01'01"	17°35'35"	25°45'45"	3°42'42"	11°D17	12°07'07"	16°06'06"	12°06'06"	F 10
S 11	19 49 16	26°32'57"	18°40'08"	8°42'32"	3°27'27"	3°15'15"	19°11'11"	20°06'06"	17°38'38"	25°46'46"	3°44'44"	11°17'17"	12°03'03"	16°13'13"	12°10'10"	S 11
S 12	19 53 12	27°30'18"	1°16'56"	10°34'10"	4°41'41"	2°59'59"	19°06'06"	20°11'11"	17°42'42"	25°47'47"	3°45'45"	11°18'18"	12°00'00"	16°20'20"	12°14'14"	S 12
M13	19 57 09	28°27'40"	14°51'14"	12°25'12"	5°55'55"	2°44'44"	19°01'01"	20°17'17"	17°45'45"	25°49'49"	3°47'47"	11°19'19"	11°57'57"	16°26'26"	12°18'18"	M13
T 14	20 01 05	29°25'03"	27°26'27"	14°13'14"	7°09'09"	2°28'28"	18°57'57"	20°22'22"	17°49'49"	25°50'50"	3°49'49"	11°20'20"	11°54'54"	16°33'33"	12°22'22"	T 14
W15	20 05 02	0°02'22"	9°45'45"	16°01'01"	8°23'23"	2°12'12"	18°53'53"	20°28'28"	17°53'53"	25°52'52"	3°51'51"	11°21'21"	11°51'51"	16°40'40"	12°26'26"	W15
T 16	20 08 59	1°19'50"	21°51'21"	17°46'17"	9°37'37"	1°56'56"	18°49'49"	20°34'34"	17°56'56"	25°53'53"	3°52'52"	11°22'22"	11°48'48"	16°47'47"	12°30'30"	T 16
F 17	20 12 55	2°17'15"	3°14'48"	19°30'19"	10°51'51"	1°40'40"	18°45'45"	20°39'39"	18°00'00"	25°55'55"	3°54'54"	11°R22	11°44'44"	16°53'53"	12°34'34"	F 17
S 18	20 16 52	3°14'40"	15°42'15"	21°12'12"	12°05'05"	1°24'24"	18°42'42"	20°45'45"	18°03'03"	25°56'56"	3°56'56"	11°21'21"	11°41'41"	17°00'00"	12°38'38"	S 18
S 19	20 20 48	4°12'06"	27°36'27"	22°53'22"	13°19'19"	1°08'08"	18°38'38"	20°51'51"	18°07'07"	25°58'58"	3°58'58"	11°21'21"	11°38'38"	17°07'07"	12°42'42"	S 19
M20	20 24 45	5°09'33"	9°13'33"	24°32'24"	14°33'33"	0°52'52"	18°35'35"	20°57'57"	18°10'10"	25°59'59"	3°59'59"	11°20'20"	11°35'35"	17°14'14"	12°45'45"	M20
T 21	20 28 41	6°07'01"	21°44'21"	26°09'26"	15°47'47"	0°36'36"	18°32'32"	21°03'03"	18°14'14"	26°01'01"	4°01'01"	11°19'19"	11°32'32"	17°20'20"	12°49'49"	T 21
W22	20 32 38	7°04'30"	4°03'04"	27°45'27"	17°01'01"	0°20'20"	18°29'29"	21°09'09"	18°18'18"	26°02'02"	4°03'03"	11°19'19"	11°29'29"	17°27'27"	12°53'53"	W22
T 23	20 36 34	8°01'59"	16°38'16"	29°19'29"	18°15'15"	0°05'05"	18°26'26"	21°15'15"	18°21'21"	26°04'04"	4°05'05"	11°19'19"	11°25'25"	17°34'34"	12°56'56"	T 23
F 24	20 40 31	8°59'30"	29°28'29"	0°16'52"	19°29'29"	29°05'05"	18°24'24"	21°21'21"	18°25'25"	26°05'05"	4°07'07"	11°18'18"	11°22'22"	17°40'40"	13°00'00"	F 24
S 25	20 44 28	9°57'01"	12°34'34"	2°23'23"	20°43'43"	29°35'35"	18°21'21"	21°27'27"	18°28'28"	26°07'07"	4°08'08"	11°D18	11°19'19"	17°47'47"	13°03'03"	S 25
S 26	20 48 24	10°54'34"	25°56'25"	3°52'52"	21°57'57"	29°21'21"	18°19'19"	21°33'33"	18°31'31"	26°09'09"	4°10'10"	11°R18	11°16'16"	17°54'54"	13°07'07"	S 26
M27	20 52 21	11°52'08"	9°13'33"	5°20'20"	23°11'11"	29°06'06"	18°17'17"	21°39'39"	18°35'35"	26°10'10"	4°12'12"	11°18'18"	11°13'13"	18°01'01"	13°10'10"	M27
T 28	20 56 17	12°49'44"	23°22'23"	6°46'46"	24°25'25"	28°53'53"	18°15'15"	21°46'46"	18°38'38"	26°12'12"	4°14'14"	11°18'18"	11°09'09"	18°07'07"	13°14'14"	T 28
W29	21 00 14	13°47'21"	7°12'22"	8°10'10"	25°39'39"	28°40'40"	18°13'13"	21°52'52"	18°42'42"	26°14'14"	4°15'15"	11°18'18"	11°06'06"	18°14'14"	13°17'17"	W29
T 30	21 04 10	14°44'59"	21°29'29"	9°33'33"	26°53'53"	28°27'27"	18°12'12"	21°58'58"	18°45'45"	26°16'16"	4°17'17"	11°18'18"	11°03'03"	18°21'21"	13°20'20"	T 30
F 31	21 08 07	15°42'39"	5°04'40"	10°16'54"	28°07'07"	28°15'15"	18°11'11"	22°16'16"	18°48'48"	26°17'17"	4°19'19"	11°17'17"	11°00'00"	18°22'22"	13°23'23"	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	22n26	2n 6	3n43	23n49	1n36	22n50	1n 0	24s44	5s57	22s52	0n16	6n17	2n12	22n51	0n26	3n 4
T 2	22 18	8 20	4 30	23 34	1 40	22 40	1 2	24 50	6 1	22 52	0 16	6 15	2 11	22 50	0 26	3 3
F 3	22 10	14 14	5 1	23 17	1 43	22 29	1 3	24 56	6 4	22 51	0 16	6 13	2 11	22 50	0 26	3 3
S 4	22 2	19 29	5 14	22 57	1 46	22 18	1 5	25 3	6 8	22 51	0 16	6 11	2 11	22 50	0 26	3 2
S 5	21 54	23 38	5 8	22 36	1 47	22 5	1 7	25 9	6 11	22 51	0 16	6 9	2 11	22 49	0 26	3 2
M 6	21 45	26 20	4 42	22 12	1 48	21 53	1 8	25 15	6 14	22 51	0 16	6 6	2 11	22 49	0 26	3 1
T 7	21 35	27 15	3 57	21 47	1 49	21 39	1 10	25 22	6 17	22 50	0 15	6 4	2 11	22 48	0 26	3 1
W 8	21 26	26 18	2 59	21 19	1 48	21 25	1 11	25 28	6 20	22 50	0 15	6 2	2 11	22 48	0 26	3 0
T 9	21 16	23 39	1 49	20 50	1 47	21 11	1 12	25 34	6 23	22 50	0 15	6 0	2 10	22 47	0 26	3 0
F 10	21 5	19 37	0 34	20 20	1 46	20 55	1 14	25 40	6 25	22 50	0 15	5 58	2 10	22 47	0 26	2 59
S 11	20 55	14 38	0s41	19 48	1 43	20 39	1 15	25 46	6 28	22 49	0 15	5 56	2 10	22 46	0 26	2 59
S 12	20 43	9 5	1 52	19 15	1 41	20 23	1 16	25 52	6 30	22 49	0 15	5 53	2 10	22 46	0 26	2 58
M13	20 32	3 18	2 55	18 41	1 37	20 6	1 17	25 58	6 32	22 49	0 14	5 51	2 10	22 45	0 26	2 57
T 14	20 20	2s28	3 48	18 6	1 34	19 48	1 18	26 3	6 34	22 49	0 14	5 49	2 10	22 45	0 26	2 57
W15	20 8	8 0	4 30	17 30	1 29	19 30	1 19	26 9	6 35	22 49	0 14	5 46	2 10	22 44	0 26	2 56
T 16	19 55	13 8	4 58	16 54	1 25	19 11	1 20	26 14	6 37	22 48	0 14	5 44	2 9	22 44	0 26	2 55
F 17	19 43	17 44	5 14	16 16	1 19	18 52	1 21	26 19	6 38	22 48	0 14	5 42	2 9	22 43	0 26	2 56
S 18	19 29	21 37	5 15	15 38	1 14	18 32	1 22	26 24	6 39	22 48	0 14	5 39	2 9	22 43	0 26	2 54
S 19	19 16	24 37	5 4	15 0	1 8	18 12	1 23	26 28	6 40	22 48	0 13	5 37	2 9	22 43	0 26	2 54
M20	19 2	26 33	4 39	14 21	1 2	17 51	1 23	26 32	6 41	22 48	0 13	5 34	2 9	22 42	0 26	2 53
T 21	18 48	27 16	4 1	13 42	0 55	17 30	1 24	26 37	6 41	22 48	0 13	5 32	2 9	22 42	0 26	2 52
W22	18 34	26 39	3 12	13 2	0 48	17 8	1 25	26 40	6 42	22 48	0 13	5 30	2 9	22 41	0 26	2 52
T 23	18 19	24 40	2 12	12 23	0 41	16 45	1 25	26 44	6 42	22 48	0 13	5 27	2 9	22 41	0 26	2 51
F 24	18 4	21 23	1 5	11 43	0 33	16 23	1 26	26 47	6 42	22 48	0 13	5 25	2 9	22 40	0 26	2 50
S 25	17 48	16 58	0n 7	11 3	0 25	16 0	1 26	26 50	6 42	22 48	0 13	5 22	2 8	22 40	0 26	2 50
S 26	17 33	11 39	1 20	10 23	0 17	15 36	1 26	26 53	6 41	22 48	0 12	5 20	2 8	22 39	0 26	2 49
M27	17 17	5 42	2 30	9 43	0 9	15 12	1 27	26 55	6 41	22 48	0 12	5 17	2 8	22 39	0 26	2 48
T 28	17 1	0n37	3 33	9 4	0 0	14 47	1 27	26 58	6 40	22 48	0 12	5 14	2 8	22 38	0 26	2 48
W29	16 44	6 57	4 23	8 24	0s 8	14 23	1 27	26 59	6 39	22 48	0 12	5 12	2 8	22 38	0 26	2 47
T 30	16 28	13 0	4 58	7 45	0 17	13 57	1 27	27 1	6 38	22 48	0 12	5 9	2 8	22 38	0 26	2 46
F 31	16n11	18n24	5n15	7n 6	0s26	13n32	1n27	27s 2	6s36	22s48	0n12	5n 7	2n 8	22n37	0n26	2n46

Julian Day Number = 2250851.5, Delta T = 06m28s
 Ecliptic obliquity = 23°30'44", Nutation = 0°00'13", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 17°04'27", Lahiri = 16°11'27" Julian Calendar 1 July 1450 == Greg. Calendar 10 July 1450

ASTRODIENST EPHEMERIS for the year 1450
geocentric

SEPTEMBER 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 14 17	16 ¹⁷ 42'05	12 ⁵⁴ 54	26 ⁵⁹ R59	7 ⁴³ 36	28 ¹² 12	19 ⁷ 7	25 ⁴⁸ 48	20 ²² 22	27 ²³ 23	5 ¹⁰ 10	10 ⁵³ 53	9 ¹⁸ 18	22 ³ 3	14 ³¹ 31	T 1
W 2	23 18 13	17 ⁴⁰ 42	26 ²⁹ 29	26 ⁵ 5	8 ⁵⁰ 50	28 ²⁴ 24	19 ¹² 12	25 ⁵⁵ 55	20 ²⁵ 25	27 ²⁵ 25	5 ¹² 12	10 ⁵⁴ 54	9 ¹⁵ 15	22 ⁹ 9	14 ³² 32	W 2
T 3	23 22 10	18 ³⁹ 21	9 ⁵⁰ 50	25 ⁷ 7	10 ⁴ 4	28 ³⁷ 37	19 ¹⁷ 17	26 ³ 3	20 ²⁷ 27	27 ²⁷ 27	5 ¹³ 13	10 ^{R55} 55	9 ¹² 12	22 ¹⁶ 16	14 ³³ 33	T 3
F 4	23 26 6	19 ³⁸ 02	23 ⁰ 0	24 ⁵ 5	11 ¹⁸ 18	28 ⁵¹ 51	19 ²² 22	26 ¹⁰ 10	20 ²⁹ 29	27 ²⁹ 29	5 ¹⁴ 14	10 ⁵⁴ 54	9 ⁹ 9	22 ²³ 23	14 ³⁴ 34	F 4
S 5	23 30 3	20 ³⁶ 45	5 ⁵⁷ 57	23 ⁰ 0	12 ³² 32	29 ⁶ 6	19 ²⁷ 27	26 ¹⁸ 18	20 ³¹ 31	27 ³¹ 31	5 ¹⁶ 16	10 ⁵² 52	9 ⁶ 6	22 ²⁹ 29	14 ³⁵ 35	S 5
S 6	23 33 59	21 ³⁵ 30	18 ⁴² 42	21 ⁵⁵ 55	13 ⁴⁶ 46	29 ²¹ 21	19 ³³ 33	26 ²⁵ 25	20 ³⁴ 34	27 ³⁴ 34	5 ¹⁷ 17	10 ⁴⁷ 47	9 ² 2	22 ³⁶ 36	14 ³⁵ 35	S 6
M 7	23 37 56	22 ³⁴ 17	1 ¹⁶ 16	20 ⁵¹ 51	15 ⁰ 0	29 ³⁷ 37	19 ³⁸ 38	26 ³² 32	20 ³⁶ 36	27 ³⁶ 36	5 ¹⁸ 18	10 ⁴¹ 41	8 ⁵⁹ 59	22 ⁴³ 43	14 ³⁶ 36	M 7
T 8	23 41 53	23 ³³ 06	13 ³⁸ 38	19 ⁴⁹ 49	16 ¹⁴ 14	29 ⁵⁴ 54	19 ⁴⁴ 44	26 ⁴⁰ 40	20 ³⁸ 38	27 ³⁸ 38	5 ²⁰ 20	10 ³³ 33	8 ⁵⁶ 56	22 ⁵⁰ 50	14 ³⁶ 36	T 8
W 9	23 45 49	24 ³¹ 57	25 ⁴⁹ 49	18 ⁵¹ 51	17 ²⁸ 28	0 ¹¹ 11	19 ⁵⁰ 50	26 ⁴⁷ 47	20 ⁴⁰ 40	27 ⁴⁰ 40	5 ²¹ 21	10 ²⁵ 25	8 ⁵³ 53	22 ⁵⁶ 56	14 ³⁷ 37	W 9
T 10	23 49 46	25 ³⁰ 50	7 ⁵¹ 51	17 ⁵⁸ 58	18 ⁴² 42	0 ²⁹ 29	19 ⁵⁶ 56	26 ⁵⁵ 55	20 ⁴² 42	27 ⁴³ 43	5 ²² 22	10 ¹⁷ 17	8 ⁵⁰ 50	23 ³ 3	14 ³⁷ 37	T 10
F 11	23 53 42	26 ²⁹ 45	19 ⁴⁷ 47	17 ¹³ 13	19 ⁵⁶ 56	0 ⁴⁷ 47	20 ² 2	27 ² 2	20 ⁴⁴ 44	27 ⁴⁵ 45	5 ²³ 23	10 ¹⁰ 10	8 ⁴⁶ 46	23 ¹⁰ 10	14 ³⁷ 37	F 11
S 12	23 57 39	27 ²⁸ 42	1 ³⁸ 38	16 ³⁶ 36	21 ¹⁰ 10	1 ⁶ 6	20 ⁸ 8	27 ⁹ 9	20 ⁴⁶ 46	27 ⁴⁷ 47	5 ²⁵ 25	10 ⁵ 5	8 ⁴³ 43	23 ¹⁶ 16	14 ³⁸ 38	S 12
S 13	0 1 35	28 ²⁷ 40	13 ²⁹ 29	16 ⁸ 8	22 ²⁴ 24	1 ²⁶ 26	20 ¹⁵ 15	27 ¹⁷ 17	20 ⁴⁸ 48	27 ⁴⁹ 49	5 ²⁶ 26	10 ¹ 1	8 ⁴⁰ 40	23 ²³ 23	14 ³⁸ 38	S 13
M14	0 5 32	29 ²⁶ 41	25 ²⁵ 25	15 ⁵⁰ 50	23 ³⁸ 38	1 ⁴⁶ 46	20 ²² 22	27 ²⁴ 24	20 ⁵⁰ 50	27 ⁵¹ 51	5 ²⁷ 27	10 ^{D 0} 0	8 ³⁷ 37	23 ³⁰ 30	14 ^{R38} 38	M14
T 15	0 9 28	0 ²⁵ 43	7 ³¹ 31	15 ^{D42} 42	24 ⁵² 52	2 ⁷ 7	20 ²⁸ 28	27 ³² 32	20 ⁵¹ 51	27 ⁵⁴ 54	5 ²⁸ 28	10 ⁰ 0	8 ³⁴ 34	23 ³⁷ 37	14 ³⁸ 38	T 15
W16	0 13 25	1 ²⁴ 47	19 ⁵¹ 51	15 ⁴⁵ 45	26 ⁵ 5	2 ²⁸ 28	20 ³⁵ 35	27 ³⁹ 39	20 ⁵³ 53	27 ⁵⁶ 56	5 ²⁹ 29	10 ¹ 1	8 ³¹ 31	23 ⁴³ 43	14 ³⁷ 37	W16
T 17	0 17 22	2 ²³ 53	2 ³⁰ 30	15 ⁵⁸ 58	27 ¹⁹ 19	2 ⁵⁰ 50	20 ⁴² 42	27 ⁴⁶ 46	20 ⁵⁵ 55	27 ⁵⁸ 58	5 ³⁰ 30	10 ² 2	8 ²⁷ 27	23 ⁵⁰ 50	14 ³⁷ 37	T 17
F 18	0 21 18	3 ²³ 00	15 ³³ 33	16 ²¹ 21	28 ³³ 33	3 ¹² 12	20 ⁵⁰ 50	27 ⁵⁴ 54	20 ⁵⁶ 56	28 ⁰ 0	5 ³¹ 31	10 ^{R 2} 2	8 ²⁴ 24	23 ⁵⁷ 57	14 ³⁷ 37	F 18
S 19	0 25 15	4 ²² 10	29 ³ 3	16 ⁵³ 53	29 ⁴⁷ 47	3 ³⁵ 35	20 ⁵⁷ 57	28 ¹ 1	20 ⁵⁸ 58	28 ³ 3	5 ³³ 33	10 ⁰ 0	8 ²¹ 21	24 ³ 3	14 ³⁷ 37	S 19
S 20	0 29 11	5 ²¹ 21	12 ⁵⁹ 59	17 ³⁵ 35	1 ¹¹ 11	3 ⁵⁸ 58	21 ⁵ 5	28 ⁸ 8	21 ⁰ 0	28 ⁵ 5	5 ³⁴ 34	9 ⁵⁶ 56	8 ¹⁸ 18	24 ¹⁰ 10	14 ³⁶ 36	S 20
M21	0 33 8	6 ²⁰ 34	27 ²¹ 21	18 ²⁶ 26	2 ¹⁵ 15	4 ²¹ 21	21 ¹² 12	28 ¹⁶ 16	21 ¹ 1	28 ⁷ 7	5 ³⁵ 35	9 ⁵⁰ 50	8 ¹⁵ 15	24 ¹⁷ 17	14 ³⁶ 36	M21
T 22	0 37 4	7 ¹⁹ 49	12 ⁵ 5	19 ²⁴ 24	3 ²⁸ 28	4 ⁴⁶ 46	21 ²⁰ 20	28 ²³ 23	21 ³ 3	28 ⁹ 9	5 ³⁶ 36	9 ⁴² 42	8 ¹¹ 11	24 ²⁴ 24	14 ³⁵ 35	T 22
W23	0 41 1	8 ¹⁹ 06	26 ⁵⁷ 57	20 ²⁹ 29	4 ⁴² 42	5 ¹⁰ 10	21 ²⁸ 28	28 ³¹ 31	21 ⁴ 4	28 ¹¹ 11	5 ³⁷ 37	9 ³³ 33	8 ⁸ 8	24 ³⁰ 30	14 ³⁴ 34	W23
T 24	0 44 57	9 ¹⁸ 26	11 ⁵⁴ 54	21 ⁴⁰ 40	5 ⁵⁶ 56	5 ³⁵ 35	21 ³⁶ 36	28 ³⁸ 38	21 ⁵ 5	28 ¹⁴ 14	5 ³⁸ 38	9 ²⁴ 24	8 ⁵ 5	24 ³⁷ 37	14 ³⁴ 34	T 24
F 25	0 48 54	10 ¹⁷ 48	26 ⁴⁷ 47	22 ⁵⁷ 57	7 ¹⁰ 10	6 ¹ 1	21 ⁴⁴ 44	28 ⁴⁵ 45	21 ⁷ 7	28 ¹⁶ 16	5 ³⁸ 38	9 ¹⁶ 16	8 ² 2	24 ⁴⁴ 44	14 ³³ 33	F 25
S 26	0 52 50	11 ¹⁷ 12	11 ²⁶ 26	24 ¹⁸ 18	8 ²⁴ 24	6 ²⁷ 27	21 ⁵³ 53	28 ⁵² 52	21 ⁸ 8	28 ¹⁸ 18	5 ³⁹ 39	9 ¹¹ 11	7 ⁵⁹ 59	24 ⁵¹ 51	14 ³² 32	S 26
S 27	0 56 47	12 ¹⁶ 39	25 ⁴⁷ 47	25 ⁴⁴ 44	9 ³⁷ 37	6 ⁵³ 53	22 ¹ 1	29 ⁰ 0	21 ⁹ 9	28 ²⁰ 20	5 ⁴⁰ 40	9 ⁷ 7	7 ⁵⁶ 56	24 ⁵⁷ 57	14 ³¹ 31	S 27
M28	1 0 44	13 ¹⁶ 08	9 ⁴⁷ 47	27 ¹³ 13	10 ⁵¹ 51	7 ²⁰ 20	22 ¹⁰ 10	29 ⁷ 7	21 ¹⁰ 10	28 ²² 22	5 ⁴¹ 41	9 ^{D 6} 6	7 ⁵² 52	25 ⁴ 4	14 ³⁰ 30	M28
T 29	1 4 40	14 ¹⁵ 39	23 ²⁷ 27	28 ⁴⁵ 45	12 ⁵ 5	7 ⁴⁷ 47	22 ¹⁸ 18	29 ¹⁴ 14	21 ¹¹ 11	28 ²⁵ 25	5 ⁴² 42	9 ⁶ 6	7 ⁴⁹ 49	25 ¹¹ 11	14 ²⁹ 29	T 29
W30	1 8 37	15 ¹⁵ 13	6 ⁴⁸ 48	0 ¹⁹ 19	13 ¹⁹ 19	8 ¹⁴ 14	22 ²⁷ 27	29 ²¹ 21	21 ¹² 12	28 ²⁷ 27	5 ⁴³ 43	9 ^{R 7} 7	7 ⁴⁶ 46	25 ¹⁷ 17	14 ²⁸ 28	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	5n16	25n19	2n27	2s24	3s56	2s13	0n53	25s28	4s59	22s57	0n 7	3n36	2n 7	22n24	0n27	2n19	1n23	25n 6	6n16	17s33	17s59	23s11	17n46	4s53					
W 2	4 53	22 12	1 18	1 56	3 48	2 44	0 51	25 21	4 55	22 58	0 7	3 34	2 7	22 24	0 27	2 18	1 23	25 6	6 16	17 33	18 0	23 12	17 46	4 53					
T 3	4 30	17 56	0 6	1 24	3 39	3 15	0 49	25 15	4 51	22 58	0 6	3 31	2 7	22 24	0 27	2 17	1 23	25 5	6 16	17 33	18 1	23 14	17 45	4 54					
F 4	4 7	12 52	1s 5	0 48	3 27	3 46	0 47	25 8	4 47	22 59	0 6	3 28	2 7	22 23	0 27	2 17	1 23	25 5	6 16	17 33	18 1	23 15	17 45	4 54					
S 5	3 44	7 19	2 12	0 10	3 13	4 17	0 45	25 1	4 44	22 59	0 6	3 25	2 7	22 23	0 27	2 16	1 23	25 5	6 16	17 34	18 2	23 17	17 44	4 55					
S 6	3 21	1 34	3 10	0n29	2 58	4 48	0 42	24 54	4 40	23 0	0 6	3 22	2 7	22 23	0 27	2 15	1 23	25 5	6 17	17 35	18 3	23 19	17 44	4 55					
M 7	2 57	4s 9	3 59	1 10	2 41	5 19	0 40	24 47	4 36	23 1	0 6	3 19	2 7	22 22	0 27	2 14	1 23	25 5	6 17	17 37	18 4	23 20	17 44	4 56					
T 8	2 34	9 37	4 35	1 51	2 23	5 49	0 38	24 40	4 32	23 1	0 6	3 16	2 7	22 22	0 27	2 13	1 23	25 5	6 17	17 39	18 5	23 22	17 43	4 56					
W 9	2 11	14 37	4 58	2 31	2 4	6 20	0 35	24 33	4 29	23 2	0 6	3 13	2 7	22 22	0 27	2 12	1 23	25 5	6 17	17 41	18 6	23 23	17 43	4 57					
T 10	1 47	19 1	5 7	3 10	1 44	6 50	0 33	24 25	4 25	23 2	0 5	3 10	2 7	22 21	0 27	2 11	1 23	25 4	6 17	17 43	18 6	23 25	17 42	4 57					
F 11	1 24	22 36	5 3	3 46	1 24	7 21	0 31	24 17	4 21	23 3	0 5	3 7	2 7	22 21	0 27	2 10	1 23	25 4	6 18	17 45	18 7	23 26	17 42	4 58					
S 12	1 0	25 13	4 46	4 19	1 4	7 51	0 28	24 9	4 17	23 3	0 5	3 4	2 7	22 21	0 27	2 10	1 23	25 4	6 18	17 46	18 8	23 28	17 41	4 58					
S 13	0 37	26 44	4 17	4 49	0 44	8 21	0 26	24 1	4 14	23 4	0 5	3 1	2 7	22 21	0 27	2 9	1 23	25 4	6 18	17 47	18 9	23 29	17 41	4 58					
M14	0 13	27 2	3 36	5 14	0 25	8 51	0 23	23 53	4 10	23 5	0 5	2 58	2 7	22 20	0 27	2 8	1 23	25 4	6 18	17 48	18 10	23 31	17 40	4 59					
T 15	0s10	26 3	2 46	5 34	0 6	9 20	0 21	23 45	4 6	23 5	0 5	2 56	2 7	22 20	0 27	2 7	1 23	25 4	6 18	17 48	18 11	23 32	17 40	4 59					
W16	0 34	23 48	1 46	5 49	0n11	9 50	0 18	23 36	4 3	23 6	0 5	2 53	2 7	22 20	0 27	2 6	1 23	25 4	6 19	17 47	18 11	23 34	17 39	5 0					
T 17	0 57	20 19	0 40	5 59	0 28	10 19	0 15	23 28	3 59	23 7	0 5	2 50	2 7	22 20	0 27	2 5	1 23	25 4	6 19	17 47	18 12	23 35	17 39	5 0					
F 18	1 21	15 45	0n30	6 4	0 43	10 48	0 13	23 19	3 56	23 7	0 4	2 47	2 7	22 19	0 27	2 4	1 23	25 4	6 19	17 47	18 13	23 37	17 38	5 1					
S 19	1 44	10 17	1 40	6 3	0 56	11 16	0 10	23 10	3 52	23 8	0 4	2 44	2 7	22 19	0 27	2 3	1 23	25 4	6 19	17 48	18 14	23 38	17 38	5 1					
S 20	2 8	4 8	2 47	5 58	1 9	11 45	0 7	23 1	3 48	23 8	0 4	2 41	2 7	22 19	0 27	2 2	1 23	25 4	6 19	17 49	18 15	23 40	17 37	5 2					
M21	2 32	2n23	3 45	5 48	1 19	12 13	0 4	22 52	3 45	23 9	0 4	2 38	2 7	22 19	0 27	2 2	1 23	25 4	6 20	17 50	18 16	23 41	17 37	5 2					
T 22	2 55	8 54	4 30	5 34	1 29	12 41	0 2	22 43	3 42	23 10	0 4	2 35	2 7	22 19	0 27	2 1	1 23	25 4	6 20	17 53	18 16	23 43	17 36	5 3					
W23	3 19	15 1	4 57	5 16	1 37	13 9	0s 1	22 33	3 38	23 10	0 4	2 32	2 7	22 18	0 27	2 0	1 23	25 4	6 20	17 55	18 17	23 44	17 36	5 3					
T 24	3 42	20 16	5 4	4 54	1 44	13 36	0 4	22 24	3 35	23 11	0 4	2 30	2 7	22 18	0 27	1 59	1 24	25 4	6 20	17 57	18 18	23 46	17 35	5 4					
F 25	4 5	24 12	4 50	4 29	1 49	14 3	0 7	22 14	3 31	23 12	0 4	2 27	2 7	22 18	0 28	1 58	1 24	25 4	6 21	17 59	18 19	23 47	17 35	5 4					
S 26	4 29	26 28	4 18	4 0	1 53	14 30	0 9	22 4	3 28	23 12	0 3	2 24	2 8	22 18	0 28	1 57	1 24	25 3	6 21	18 1	18 20	23 49	17 34	5 5					
S 27	4 52	26 56	3 29	3 29	1 56	14 56	0 12	21 54	3 24	23 13	0 3	2 21	2 8	22 18	0 28	1 56	1 24	25 3	6 21	18 2	18 21	23 50	17 33	5 5					
M28	5 15	25 38	2 29	2 55	1 58	15 22	0 15	21 44	3 21	23 14	0 3	2 18	2 8	22 18	0 28	1 56	1 24	25 3	6 21	18 2	18 21	23 51	17 32	5 6					
T 29	5 18	22 49	1 22	2 20	2 0	15 48	0 18	21 34	3 18	23 14	0 3	2 15	2 8	22 18	0 28	1 55	1 24	25 3	6 21	18 2	18 22	23 53	17 32	5 6					
W30	6s 1	18n50	0n12	1n42	2n 0	16s13	0s21	21s24	3s15	23s15	0n 3	2n13	2n 8	22n17	0n28	1n54	1n24	25n 4	6n22	18s 2	18s23	23s54	17n32	5s 7					

ASTRODIENST EPHEMERIS for the year 1450

geocentric

OCTOBER 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 12 33	16♌14'49	19♏52	1♊56	14♋32	8♈42	22♈36	29♏29	21♏13	28♏29	5♏43	9♏6	7♈43	25♋24	14♏26	T 1
F 2	1 16 30	17°14'27	2♏42	3°33	15°46	9°10	22°45	29°36	21°14	28°31	5°44	9♈4	7°40	25°31	14♏25	F 2
S 3	1 20 26	18°14'07	15°20	5°12	17°0	9°39	22°55	29°43	21°15	28°33	5°45	8°59	7°37	25°38	14°24	S 3
S 4	1 24 23	19°13'50	27°48	6°52	18°13	10°7	23°4	29°50	21°16	28°35	5°46	8°50	7°33	25°44	14°22	S 4
M 5	1 28 19	20°13'34	10♌4	8°33	19°27	10°37	23°14	29°57	21°17	28°37	5°46	8°40	7°30	25°51	14°20	M 5
T 6	1 32 16	21°13'21	22°18	10°14	20°41	11°6	23°23	0♌4	21°18	28°40	5°47	8°27	7°27	25°58	14°19	T 6
W 7	1 36 13	22°13'10	4♋21	11°55	21°54	11°36	23°33	0°11	21°18	28°42	5°48	8°13	7°24	26°4	14°17	W 7
T 8	1 40 9	23°13'01	16°18	13°37	23°8	12°6	23°43	0°19	21°19	28°44	5°48	7°59	7°21	26°11	14°15	T 8
F 9	1 44 6	24°12'53	28°11	15°18	24°22	12°37	23°53	0°26	21°20	28°46	5°49	7°47	7°17	26°18	14°13	F 9
S 10	1 48 2	25°12'48	10♈1	16°59	25°35	13°8	24°3	0°32	21°20	28°48	5°49	7°37	7°14	26°25	14°12	S 10
S 11	1 51 59	26°12'44	21°50	18°41	26°49	13°39	24°13	0°39	21°20	28°50	5°50	7°29	7°11	26°31	14°10	S 11
M12	1 55 55	27°12'42	3♌44	20°21	28°2	14°10	24°23	0°46	21°21	28°52	5°50	7°25	7°8	26°38	14°7	M12
T 13	1 59 52	28°12'42	15°46	22°2	29°16	14°42	24°33	0°53	21°21	28°54	5°51	7°23	7°5	26°45	14°5	T 13
W14	2 3 48	29°12'43	28°2	23°42	0♈30	15°14	24°44	1°0	21°22	28°56	5°51	7°D22	7°2	26°51	14°3	W14
T 15	2 7 45	0♋12'47	10♌36	25°22	1°43	15°46	24°54	1°7	21°22	28°58	5°52	7°R22	6°58	26°58	14°1	T 15
F 16	2 11 42	1°12'51	23°34	27°1	2°57	16°18	25°5	1°14	21°22	29°0	5°52	7°21	6°55	27°5	13°59	F 16
S 17	2 15 38	2°12'57	6♈59	28°40	4°10	16°51	25°16	1°20	21°22	29°2	5°52	7°19	6°52	27°12	13°56	S 17
S 18	2 19 35	3°13'05	20°55	0♋19	5°23	17°24	25°27	1°27	21°22	29°4	5°53	7°14	6°49	27°18	13°54	S 18
M19	2 23 31	4°13'14	5°V21	1°57	6°37	17°57	25°38	1°34	21°R22	29°6	5°53	7°6	6°46	27°25	13°51	M19
T 20	2 27 28	5°13'25	20°12	3°35	7°50	18°30	25°49	1°40	21°22	29°8	5°53	6°56	6°43	27°32	13°49	T 20
W21	2 31 24	6°13'38	5♈21	5°13	9°4	19°4	26°0	1°47	21°22	29°9	5°53	6°45	6°39	27°38	13°46	W21
T 22	2 35 21	7°13'53	20°39	6°50	10°17	19°38	26°11	1°53	21°22	29°11	5°54	6°33	6°36	27°45	13°43	T 22
F 23	2 39 17	8°14'10	5♏52	8°26	11°30	20°12	26°22	2°0	21°22	29°13	5°54	6°23	6°33	27°52	13°41	F 23
S 24	2 43 14	9°14'28	20°52	10°3	12°44	20°46	26°34	2°6	21°21	29°15	5°54	6°15	6°30	27°59	13°38	S 24
S 25	2 47 11	10°14'49	5♏30	11°39	13°57	21°20	26°45	2°13	21°21	29°17	5°54	6°10	6°27	28°5	13°35	S 25
M26	2 51 7	11°15'11	19°42	13°14	15°10	21°55	26°57	2°19	21°21	29°19	5°54	6°8	6°23	28°12	13°32	M26
T 27	2 55 4	12°15'36	3♏27	14°49	16°24	22°29	27°9	2°25	21°20	29°20	5°54	6°7	6°20	28°19	13°29	T 27
W28	2 59 0	13°16'02	16°47	16°24	17°37	23°4	27°20	2°31	21°20	29°22	5°54	6°7	6°17	28°25	13°26	W28
T 29	3 2 57	14°16'30	29°46	17°59	18°50	23°39	27°32	2°38	21°19	29°24	5°R54	6°6	6°14	28°32	13°23	T 29
F 30	3 6 53	15°17'00	12♏26	19°34	20°3	24°15	27°44	2°44	21°19	29°25	5°54	6°4	6°11	28°39	13°20	F 30
S 31	3 10 50	16♋17'32	24♏53	21♋8	21♈16	24♈50	27♈56	2♌50	21♏18	29♏27	5♏54	5♈58	6♈8	28♋46	13♏17	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	6s25	14n 0	0s57	1n 3	1n59	16s38	0s24	21s13	3s11	23s15	0n 3	2n10	2n 8	22n17	0n28	1n53
F 2	6 47	8 39	2 2	0 23	1 58	17 2	0 27	21 2	3 8	23 16	0 3	2 7	2 8	22 17	0 28	1 52
S 3	7 10	3 2	3 0	0s18	1 56	17 26	0 30	20 52	3 5	23 17	0 3	2 4	2 8	22 17	0 28	1 51
S 4	7 33	2s36	3 48	1 0	1 53	17 50	0 32	20 41	3 2	23 17	0 3	2 1	2 8	22 17	0 28	1 51
M 5	7 56	8 4	4 25	1 43	1 50	18 13	0 35	20 30	2 59	23 18	0 2	1 59	2 8	22 17	0 28	1 50
T 6	8 18	13 10	4 49	2 26	1 47	18 35	0 38	20 18	2 56	23 18	0 2	1 56	2 8	22 17	0 28	1 49
W 7	8 41	17 42	5 0	3 9	1 43	18 57	0 41	20 7	2 53	23 19	0 2	1 53	2 9	22 17	0 28	1 48
T 8	9 3	21 30	4 57	3 53	1 38	19 19	0 44	19 56	2 50	23 20	0 2	1 51	2 9	22 17	0 28	1 47
F 9	9 25	24 23	4 42	4 36	1 33	19 40	0 47	19 44	2 47	23 20	0 2	1 48	2 9	22 17	0 28	1 46
S 10	9 47	26 13	4 14	5 20	1 28	20 1	0 49	19 32	2 44	23 21	0 2	1 45	2 9	22 17	0 28	1 46
S 11	10 9	26 51	3 36	6 4	1 23	20 21	0 52	19 20	2 41	23 21	0 2	1 43	2 9	22 17	0 28	1 45
M12	10 31	26 15	2 48	6 47	1 17	20 41	0 55	19 9	2 38	23 22	0 2	1 40	2 9	22 16	0 28	1 44
T 13	10 52	24 25	1 52	7 30	1 11	21 0	0 58	18 56	2 35	23 22	0 2	1 37	2 9	22 16	0 28	1 43
W14	11 14	21 25	0 49	8 13	1 5	21 18	1 1	18 44	2 32	23 23	0 1	1 35	2 9	22 16	0 28	1 43
T 15	11 35	17 21	0n17	8 55	0 59	21 36	1 3	18 32	2 29	23 24	0 1	1 32	2 9	22 16	0 28	1 42
F 16	11 56	12 23	1 25	9 37	0 53	21 53	1 6	18 19	2 26	23 24	0 1	1 29	2 10	22 16	0 28	1 41
S 17	12 17	6 39	2 30	10 19	0 47	22 10	1 9	18 7	2 23	23 25	0 1	1 27	2 10	22 16	0 28	1 40
S 18	12 37	0 25	3 28	11 0	0 40	22 26	1 11	17 54	2 21	23 25	0 1	1 24	2 10	22 16	0 28	1 40
M19	12 58	6n 2	4 16	11 40	0 33	22 42	1 14	17 41	2 18	23 26	0 1	1 22	2 10	22 17	0 28	1 39
T 20	13 18	12 21	4 47	12 20	0 27	22 56	1 16	17 28	2 15	23 26	0 1	1 19	2 10	22 17	0 28	1 38
W21	13 38	18 3	5 0	12 59	0 20	23 11	1 19	17 15	2 13	23 26	0 1	1 17	2 10	22 17	0 28	1 37
T 22	13 58	22 38	4 51	13 37	0 13	23 24	1 21	17 2	2 10	23 27	0 1	1 14	2 10	22 17	0 28	1 37
F 23	14 18	25 39	4 22	14 15	0 7	23 37	1 24	16 49	2 7	23 27	0 0	1 12	2 11	22 17	0 28	1 36
S 24	14 37	26 46	3 34	14 52	0 0	23 49	1 26	16 35	2 5	23 28	0 0	1 10	2 11	22 17	0 28	1 35
S 25	14 56	25 58	2 34	15 29	0s 7	24 1	1 29	16 22	2 2	23 28	0 0	1 7	2 11	22 17	0 29	1 35
M26	15 15	23 28	1 26	16 4	0 13	24 12	1 31	16 8	2 0	23 28	0 0	1 5	2 11	22 17	0 29	1 34
T 27	15 34	19 40	0 14	16 39	0 20	24 22	1 33	15 54	1 57	23 29	0 0	1 2	2 11	22 17	0 29	1 33
W28	15 52	14 58	0s56	17 13	0 26	24 31	1 36	15 40	1 55	23 29	0s 0	1 0	2 11	22 17	0 29	1 33
T 29	16 10	9 42	2 1	17 46	0 33	24 40	1 38	15 26	1 52	23 30	0 0	0 58	2 12	22 17	0 29	1 32
F 30	16 28	4 9	2 59	18 18	0 39	24 48	1 40	15 12	1 50	23 30	0 0	0 56	2 12	22 17	0 29	1 31
S 31	16s46	1s26	3s47	18s50	0s46	24s55	1s42	14s58	1s48	23s30	0s 0	0n53	2n12	22n18	0n29	1n31

Julian Day Number = 2250943.5, Delta T = 06m28s

Ecliptic obliquity = 23°30'44", Nutation = 0°00'13", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°04'39", Lahiri = 16°11'40" Julian Calendar 1 Oct. 1450 == Greg. Calendar 10 Oct. 1450

ASTRODIENST EPHEMERIS for the year 1450
geocentric

DECEMBER 1450 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 13 3	17°44'28	10°12	7°19	28°44	14°11	4°38	5°24	20°R35	0°6	5°R40	3°R 2	4°29	2°14	11°R25	T 1
W 2	5 17 0	18°45'36	22° 4	8°33	29°56	14°49	4°51	5°28	20°33	0° 6	5°39	2°53	4°26	2°20	11°I21	W 2
T 3	5 20 56	19°46'45	3°55	9°43	1°8 7	15°28	5° 5	5°32	20°30	0° 7	5°38	2°44	4°23	2°27	11°18	T 3
F 4	5 24 53	20°47'55	15°46	10°50	2°18	16° 7	5°19	5°35	20°28	0° 8	5°37	2°36	4°20	2°34	11°14	F 4
S 5	5 28 49	21°49'05	27°41	11°52	3°30	16°46	5°33	5°39	20°26	0° 8	5°36	2°29	4°16	2°40	11°10	S 5
S 6	5 32 46	22°50'15	9°39	12°49	4°41	17°25	5°46	5°42	20°24	0° 9	5°35	2°25	4°13	2°47	11° 7	S 6
M 7	5 36 43	23°51'26	21°44	13°40	5°52	18° 5	6° 0	5°45	20°22	0°10	5°34	2°22	4°10	2°54	11° 3	M 7
T 8	5 40 39	24°52'37	3°56	14°24	7° 3	18°44	6°14	5°48	20°19	0°10	5°33	2°D21	4° 7	3° 1	10°59	T 8
W 9	5 44 36	25°53'48	16°19	15° 1	8°14	19°23	6°28	5°51	20°17	0°11	5°32	2°22	4° 4	3° 7	10°56	W 9
T 10	5 48 32	26°55'00	28°56	15°29	9°25	20° 2	6°42	5°54	20°15	0°11	5°31	2°24	4° 1	3°14	10°52	T 10
F 11	5 52 29	27°56'11	11°49	15°48	10°36	20°42	6°56	5°57	20°12	0°12	5°30	2°25	3°57	3°21	10°49	F 11
S 12	5 56 25	28°57'22	25° 2	15°R56	11°46	21°21	7°10	6° 0	20°10	0°12	5°29	2°R26	3°54	3°27	10°45	S 12
S 13	6 0 22	29°58'33	8°39	15°54	12°57	22° 1	7°23	6° 3	20° 8	0°13	5°28	2°26	3°51	3°34	10°41	S 13
M14	6 4 18	0°59'44	22°40	15°40	14° 7	22°40	7°37	6° 5	20° 5	0°13	5°27	2°24	3°48	3°41	10°38	M14
T 15	6 8 15	2° 0'54	7° 4	15°14	15°18	23°20	7°51	6° 8	20° 3	0°13	5°26	2°21	3°45	3°47	10°35	T 15
W16	6 12 12	3° 2'05	21°50	14°36	16°28	23°59	8° 5	6°10	20° 0	0°13	5°25	2°17	3°41	3°54	10°31	W16
T 17	6 16 8	4° 3'15	6°11	13°47	17°38	24°39	8°19	6°12	19°58	0°14	5°24	2°13	3°38	4° 1	10°28	T 17
F 18	6 20 5	5° 4'25	21°58	12°48	18°48	25°18	8°33	6°14	19°55	0°14	5°23	2° 9	3°35	4° 8	10°24	F 18
S 19	6 24 1	6° 5'35	7° 2	11°40	19°57	25°58	8°47	6°16	19°53	0°14	5°21	2° 6	3°32	4°14	10°21	S 19
S 20	6 27 58	7° 6'45	21°54	10°25	21° 7	26°37	9° 1	6°18	19°50	0°14	5°20	2° 5	3°29	4°21	10°18	S 20
M21	6 31 54	8° 7'55	6°12	9° 6	22°16	27°17	9°15	6°20	19°48	0°14	5°19	2°D 4	3°26	4°28	10°15	M21
T 22	6 35 51	9° 9'05	20°32	7°46	23°26	27°57	9°29	6°22	19°45	0°14	5°18	2° 5	3°22	4°34	10°12	T 22
W23	6 39 48	10°10'15	4°12	6°26	24°35	28°37	9°43	6°24	19°43	0°15	5°17	2° 7	3°19	4°41	10° 8	W23
T 24	6 43 44	11°11'24	17°25	5°10	25°44	29°16	9°57	6°25	19°40	0°R15	5°15	2° 8	3°16	4°48	10° 5	T 24
F 25	6 47 41	12°12'34	0°14	3°59	26°53	29°56	10°11	6°27	19°38	0°14	5°14	2° 9	3°13	4°55	10° 2	F 25
S 26	6 51 37	13°13'44	12°42	2°55	28° 1	0°36	10°25	6°28	19°35	0°14	5°13	2°R10	3°10	5° 1	9°59	S 26
S 27	6 55 34	14°14'53	24°54	2° 0	29°10	1°16	10°39	6°29	19°32	0°14	5°11	2°10	3° 7	5° 8	9°56	S 27
M28	6 59 30	15°16'03	6°15	1°14	0°18	1°56	10°53	6°30	19°30	0°14	5°10	2° 8	3° 3	5°15	9°54	M28
T 29	7 3 27	16°17'12	18°48	0°37	1°26	2°35	11° 7	6°31	19°27	0°14	5° 9	2° 6	3° 0	5°21	9°51	T 29
W30	7 7 23	17°18'21	0°38	0°11	2°34	3°15	11°21	6°32	19°25	0°14	5° 8	2° 4	2°57	5°28	9°48	W30
T 31	7 11 20	18°19'30	12°28	29°54	3°42	3°55	11°35	6°33	19°22	0°14	5° 6	2° 2	2°54	5°35	9°45	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s57	19s45	5 s 5	25s21	2s 3	22s35	2s 9	6s56	0s45	23s29	0 s 3	0s 2	2n19	22n25	0n30	1n17
W 2	23 2	23 1	4 51	25 11	1 58	22 19	2 9	6 40	0 43	23 29	0 4	0 3	2 19	22 25	0 30	1 16
T 3	23 7	25 19	4 24	25 0	1 51	22 3	2 8	6 23	0 42	23 28	0 4	0 4	2 19	22 26	0 30	1 16
F 4	23 11	26 29	3 45	24 48	1 44	21 46	2 7	6 6	0 40	23 28	0 4	0 5	2 20	22 26	0 30	1 16
S 5	23 16	26 26	2 57	24 34	1 36	21 29	2 6	5 50	0 39	23 28	0 4	0 7	2 20	22 26	0 30	1 16
S 6	23 19	25 9	2 0	24 20	1 26	21 11	2 5	5 33	0 37	23 27	0 4	0 8	2 20	22 27	0 30	1 16
M 7	23 22	22 42	0 58	24 4	1 16	20 52	2 4	5 16	0 35	23 27	0 4	0 9	2 20	22 27	0 30	1 15
T 8	23 25	19 11	0n 9	23 48	1 4	20 33	2 3	4 59	0 34	23 26	0 4	0 10	2 21	22 28	0 30	1 15
W 9	23 27	14 48	1 15	23 31	0 51	20 13	2 2	4 43	0 32	23 25	0 4	0 11	2 21	22 28	0 30	1 15
T 10	23 29	9 42	2 20	23 14	0 37	19 53	2 0	4 26	0 31	23 25	0 4	0 12	2 21	22 28	0 30	1 15
F 11	23 30	4 5	3 19	22 56	0 22	19 32	1 59	4 9	0 29	23 24	0 4	0 12	2 21	22 29	0 30	1 15
S 12	23 30	1n50	4 9	22 39	0 5	19 11	1 57	3 52	0 28	23 24	0 4	0 13	2 22	22 29	0 30	1 15
S 13	23 31	7 49	4 46	22 22	0n12	18 49	1 55	3 35	0 26	23 23	0 5	0 14	2 22	22 29	0 30	1 15
M14	23 30	13 36	5 8	22 5	0 31	18 27	1 53	3 18	0 25	23 22	0 5	0 15	2 22	22 30	0 30	1 15
T 15	23 30	18 49	5 12	21 49	0 50	18 4	1 51	3 1	0 24	23 21	0 5	0 16	2 23	22 30	0 30	1 14
W16	23 29	23 1	4 55	21 34	1 9	17 41	1 49	2 47	0 22	23 21	0 5	0 16	2 23	22 31	0 30	1 14
T 17	23 27	25 45	4 18	21 19	1 29	17 18	1 49	2 24	0 21	23 20	0 5	0 17	2 23	22 31	0 30	1 14
F 18	23 25	26 38	3 23	21 6	1 48	16 54	1 45	2 10	0 19	23 19	0 5	0 18	2 23	22 31	0 30	1 14
S 19	23 22	25 33	2 13	20 54	2 6	16 29	1 42	1 53	0 18	23 18	0 5	0 18	2 24	22 32	0 30	1 14
S 20	23 19	22 39	0 56	20 43	2 24	16 5	1 40	1 36	0 17	23 17	0 5	0 19	2 24	22 32	0 30	1 14
M21	23 16	18 20	0s24	20 33	2 39	15 39	1 37	1 19	0 15	23 17	0 5	0 19	2 24	22 32	0 30	1 14
T 22	23 12	13 6	1 40	20 25	2 52	15 14	1 34	1 2	0 14	23 16	0 5	0 19	2 25	22 33	0 30	1 14
W23	23 7	7 24	2 48	20 18	3 3	14 48	1 31	0 45	0 13	23 15	0 6	0 20	2 25	22 33	0 30	1 14
T 24	23 2	1 32	3 45	20 13	3 11	14 22	1 28	0 28	0 11	23 14	0 6	0 20	2 25	22 34	0 30	1 14
F 25	22 57	4s11	4 28	20 10	3 17	13 55	1 25	0 11	0 10	23 13	0 6	0 21	2 25	22 34	0 30	1 14
S 26	22 51	9 36	4 58	20 8	3 21	13 29	1 22	0n 6	0 9	23 12	0 6	0 21	2 26	22 34	0 30	1 15
S 27	22 45	14 31	5 13	20 8	3 22	13 2	1 19	0 23	0 8	23 11	0 6	0 21	2 26	22 35	0 30	1 15
M28	22 38	18 48	5 15	20 9	3 21	12 34	1 15	0 40	0 6	23 10	0 6	0 21	2 26	22 35	0 30	1 15
T 29	22 31	22 18	5 2	20 12	3 18	12 7	1 11	0 57	0 5	23 9	0 6	0 21	2 27	22 36	0 30	1 15
W30	22 23	24 52	4 38	20 17	3 14	11 39	1 8	1 14	0 4	23 8	0 6	0 21	2 27	22 36	0 30	1 15
T 31	22s15	26s20	4s 1	20s22	3n 8	11s10	1s 4	1n31	0s 3	23s 7	0s 6	0s21	2n27	22n36	0n30	1n15

Julian Day Number = 2251004.5, Delta T = 06m28s

Ecliptic obliquity = 23°30'43", Nutation = 0°00'13", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°04'48", Lahiri = 16°11'48" Julian Calendar 1 Dec. 1450 == Greg. Calendar 10 Dec. 1450