



Astrodienst Ephemeris Tables for the year 1454

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 1454

geocentric

JANUARY 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 16 21	19°37'04	11°17'17	17°16'21	21°28'18	18°00'00	7°00'00	11°10'10	3°R49	6°R47	9°R58	6°R13	4°R48	7°Y48	8°R22	T 1
W 2	7 20 18	20°38'12	23°51'18	18°55'22	22°42'18	18°44'00	7°08'00	11°14'30	3°R46	6°R47	9°R56	6°R44	4°45'00	7°54'00	8°R18	W 2
T 3	7 24 14	21°39'18	6°H10	20°35'23	23°56'19	19°28'00	7°16'00	11°17'34	3°44'00	6°47'00	9°55'00	5°56'00	4°42'00	8°01'00	8°14'00	T 3
F 4	7 28 11	22°40'24	18°17'22	22°15'25	25°09'20	20°11'00	7°24'00	11°21'34	3°41'00	6°47'00	9°54'00	5°49'00	4°39'00	8°08'00	8°10'00	F 4
S 5	7 32 7	23°41'28	0°Y14	23°56'26	26°23'20	20°55'00	7°32'00	11°25'39	3°39'00	6°46'00	9°52'00	5°44'00	4°36'00	8°14'00	8°06'00	S 5
S 6	7 36 4	24°42'32	12°05'25	25°37'27	27°37'21	21°39'00	7°41'00	11°28'36	3°36'00	6°46'00	9°51'00	5°41'00	4°32'00	8°21'00	8°02'00	S 6
M 7	7 40 1	25°43'34	23°55'27	27°19'28	28°50'22	22°23'00	7°50'00	11°32'33	3°33'00	6°46'00	9°50'00	5°D39	4°29'00	8°28'00	7°58'00	M 7
T 8	7 43 57	26°44'36	5°B50	29°02'00	4°H4	23°06'00	7°58'00	11°35'33	3°31'00	6°46'00	9°48'00	5°40'00	4°26'00	8°34'00	7°54'00	T 8
W 9	7 47 54	27°45'36	17°53'00	0°A45	1°17'23	23°50'00	8°07'00	11°39'32	3°28'00	6°45'00	9°47'00	5°41'00	4°23'00	8°41'00	7°50'00	W 9
T 10	7 51 50	28°46'36	0°II12	2°29'23	2°31'24	24°34'00	8°16'00	11°42'36	3°26'00	6°45'00	9°45'00	5°R42	4°20'00	8°48'00	7°46'00	T 10
F 11	7 55 47	29°47'34	12°49'00	4°13'34	3°44'25	25°18'00	8°25'00	11°45'32	3°23'00	6°45'00	9°44'00	5°42'00	4°17'00	8°55'00	7°42'00	F 11
S 12	7 59 43	0°A48'31	25°49'00	5°58'45	4°57'26	26°02'00	8°35'00	11°48'32	3°20'00	6°44'00	9°43'00	5°40'00	4°13'00	9°01'00	7°38'00	S 12
S 13	8 3 40	1°49'27	9°B13	7°43'06	6°11'26	26°46'00	8°44'00	11°51'31	3°18'00	6°44'00	9°41'00	5°35'00	4°10'00	9°08'00	7°35'00	S 13
M14	8 7 37	2°50'22	23°02'00	9°29'7	7°24'27	27°30'00	8°54'00	11°54'31	3°15'00	6°43'00	9°40'00	5°29'00	4°07'00	9°15'00	7°31'00	M14
T 15	8 11 33	3°51'15	7°R12	11°15'08	8°37'28	28°14'00	9°03'00	11°57'31	3°13'00	6°43'00	9°38'00	5°20'00	4°04'00	9°21'00	7°27'00	T 15
W16	8 15 30	4°52'08	21°38'13	1°09'50	28°58'00	9°13'00	11°59'31	3°10'00	6°42'00	9°37'00	9°37'00	5°10'00	4°01'00	9°28'00	7°24'00	W16
T 17	8 19 26	5°52'59	6°R13	14°48'11	1°03'29	29°42'00	9°23'00	12°02'00	3°07'00	6°42'00	9°35'00	5°00'00	3°58'00	9°35'00	7°20'00	T 17
F 18	8 23 23	6°53'50	20°51'16	16°34'12	1°00'27	30°33'00	9°33'00	12°04'00	3°05'00	6°41'00	9°34'00	4°52'00	3°54'00	9°41'00	7°17'00	F 18
S 19	8 27 19	7°54'39	5°A24	18°21'13	1°09'11	31°11'00	9°43'00	12°07'00	3°02'00	6°40'00	9°33'00	4°45'00	3°51'00	9°48'00	7°13'00	S 19
S 20	8 31 16	8°55'27	19°48'20	14°41'15	1°55'09	32°03'00	9°53'00	12°09'00	2°59'00	6°40'00	9°31'00	4°41'00	3°48'00	9°55'00	7°10'00	S 20
M21	8 35 12	9°56'15	3°R58	21°53'15	1°54'23	33°09'00	10°04'00	12°11'00	2°57'00	6°39'00	9°30'00	4°40'00	3°45'00	10°02'00	7°06'00	M21
T 22	8 39 9	10°57'02	17°55'23	1°07'37	3°24'10	34°14'00	10°14'00	12°13'00	2°54'00	6°38'00	9°28'00	4°D40	3°42'00	10°08'00	7°03'00	T 22
W23	8 43 5	11°57'48	1°A37	25°22'18	4°08'10	35°25'00	10°25'00	12°15'00	2°52'00	6°37'00	9°27'00	4°R40	3°38'00	10°15'00	7°00'00	W23
T 24	8 47 2	12°58'32	15°07'27	5°19'32	4°52'10	36°36'00	10°36'00	12°17'00	2°49'00	6°37'00	9°25'00	4°40'00	3°35'00	10°22'00	6°57'00	T 24
F 25	8 50 59	13°59'16	28°24'28	6°46'20	5°37'10	37°47'00	10°47'00	12°19'00	2°47'00	6°36'00	9°24'00	4°37'00	3°32'00	10°28'00	6°54'00	F 25
S 26	8 54 55	14°59'58	11°B31	0°H24	21°57'06	38°57'00	10°57'00	12°21'00	2°44'00	6°35'00	9°23'00	4°32'00	3°29'00	10°35'00	6°51'00	S 26
S 27	8 58 52	16°0'40	24°26'02	1°23°09	7°06'11	39°09'00	11°09'00	12°22'00	2°41'00	6°34'00	9°21'00	4°24'00	3°26'00	10°42'00	6°48'00	S 27
M28	9 2 48	17°1'19	7°R11	3°33'24	7°50'11	40°20'00	11°20'00	12°24'00	2°39'00	6°33'00	9°20'00	4°13'00	3°23'00	10°48'00	6°45'00	M28
T 29	9 6 45	18°1'58	19°45'05	3°25°33	8°35'11	41°31'00	11°31'00	12°25'00	2°36'00	6°32'00	9°18'00	4°00'00	3°19'00	10°55'00	6°42'00	T 29
W30	9 10 41	19°2'35	2°H8	6°27'26	9°19'19	42°42'00	11°42'00	12°27'00	2°34'00	6°31'00	9°17'00	3°46'00	3°16'00	11°02'00	6°39'00	W30
T 31	9 14 38	20°3'10	14°H20	7°H47	27°H57	43°54'00	11°54'00	12°28'00	2°31'00	6°30'00	9°15'00	3°A33	3°A13	11°Y8	6°B37	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s 4	12s58	4n40	24s17	1s54	15s57	1s39	23s14	0s16	1n37	1s16	13s 0	2n20	19n59	0n38	1s15
W 2	21 55	8 52	5 1	24 6	1 57	15 32	1 38	23 19	0 17	1 41	1 16	13 2	2 20	19 59	0 38	1 15
T 3	21 46	4 30	5 8	23 53	1 59	15 7	1 37	23 23	0 18	1 44	1 15	13 3	2 20	20 0	0 38	1 15
F 4	21 36	0 2	5 1	23 39	2 1	14 41	1 36	23 27	0 18	1 48	1 15	13 3	2 20	20 0	0 38	1 15
S 5	21 25	4n23	4 41	23 23	2 2	14 15	1 35	23 31	0 19	1 51	1 15	13 4	2 20	20 1	0 38	1 15
S 6	21 15	8 36	4 8	23 6	2 3	13 48	1 34	23 34	0 20	1 55	1 15	13 5	2 21	20 2	0 38	1 15
M 7	21 4	12 29	3 26	22 47	2 4	13 21	1 32	23 38	0 21	1 58	1 14	13 6	2 21	20 2	0 38	1 15
T 8	20 52	15 55	2 34	22 27	2 5	12 54	1 31	23 41	0 21	2 2	1 14	13 7	2 21	20 3	0 38	1 14
W 9	20 40	18 43	1 34	22 4	2 4	12 26	1 29	23 44	0 22	2 6	1 14	13 8	2 21	20 3	0 38	1 14
T 10	20 28	20 44	0 30	21 40	2 4	11 58	1 28	23 46	0 23	2 10	1 14	13 9	2 21	20 4	0 38	1 14
F 11	20 15	21 46	0s38	21 15	2 3	11 30	1 26	23 49	0 23	2 13	1 13	13 9	2 22	20 5	0 38	1 14
S 12	20 2	21 41	1 46	20 48	2 1	11 1	1 24	23 51	0 24	2 17	1 13	13 10	2 22	20 5	0 38	1 14
S 13	19 49	20 22	2 50	20 19	1 59	10 33	1 22	23 53	0 25	2 21	1 13	13 11	2 22	20 6	0 38	1 13
M14	19 35	17 50	3 45	19 48	1 57	10 4	1 20	23 55	0 26	2 25	1 13	13 12	2 22	20 7	0 38	1 13
T 15	19 21	14 12	4 28	19 16	1 53	9 34	1 18	23 56	0 26	2 29	1 13	13 12	2 22	20 7	0 38	1 13
W16	19 6	9 40	4 56	18 42	1 50	9 5	1 16	23 57	0 27	2 33	1 12	13 13	2 23	20 8	0 38	1 13
T 17	18 51	4 33	5 4	18 7	1 45	8 35	1 14	23 58	0 28	2 37	1 12	13 13	2 23	20 8	0 38	1 12
F 18	18 36	0s50	4 52	17 31	1 40	8 5	1 12	23 59	0 28	2 42	1 12	13 14	2 23	20 9	0 38	1 12
S 19	18 21	6 9	4 22	16 52	1 35	7 35	1 9	23 59	0 29	2 46	1 12	13 14	2 23	20 10	0 38	1 12
S 20	18 5	11 5	3 35	16 13	1 28	7 4	1 7	24 0	0 30	2 50	1 11	13 15	2 24	20 10	0 38	1 11
M21	17 49	15 19	2 36	15 32	1 21	6 34	1 4	24 0	0 31	2 54	1 11	13 15	2 24	20 11	0 38	1 11
T 22	17 32	18 38	1 28	14 50	1 14	6 3	1 2	23 59	0 31	2 59	1 11	13 16	2 24	20 11	0 38	1 11
W23	17 15	20 49	0 16	14 8	1 5	5 32	0 59	23 59	0 32	3 3	1 11	13 16	2 24	20 12	0 38	1 10
T 24	16 58	21 46	0n55	13 24	0 56	5 1	0 56	23 58	0 33	3 7	1 11	13 17	2 24	20 13	0 38	1 10
F 25	16 41	21 27	2 3	12 39	0 46	4 30	0 54	23 57	0 34	3 12	1 10	13 17	2 25	20 13	0 38	1 10
S 26	16 23	19 59	3 2	11 55	0 35	3 59	0 51	23 56	0 34	3 16	1 10	13 17	2 25	20 14	0 38	1 9
S 27	16 5	17 30	3 52	11 10	0 24	3 28	0 48	23 54	0 35	3 21	1 10	13 17	2 25	20 14	0 38	1 9
M28	15 47	14 12	4 28	10 25	0 12	2 56	0 45	23 52	0 36	3 25	1 10	13 18	2 25	20 15	0 38	1 8
T 29	15 28	10 19	4 52	9 40	0n 1	2 25	0 42	23 50	0 37	3 30	1 10	13 18	2 26	20 16	0 38	1 8
W30	15 9	6 4	5 0	8 57	0 15	1 53	0 39	23 48	0 37	3 35	1 9	13 18	2 26	20 16	0 38	1 8
T 31	14s50	1s39	4n55	8s14	0n29	1s22	0s36	23s46	0s38	3n39	1s 9	13s18	2n26	20n17	0n38	1s 7

Julian Day Number = 2252131.5, Delta T = 06m22s

Ecliptic obliquity = 23°30'32", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'23", Lahiri = 16°14'23" Julian Calendar 1 Jan. 1454 == Greg. Calendar 10 Jan. 1454

ASTRODIENST EPHEMERIS for the year 1454

geocentric

FEBRUARY 1454 JC

00:00 UT

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

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14s31	2n47	4n37	7s33	0n43	0s50	0s32	23s43	0s39	3n44	1s 9	13s18	2n26	20n17	0n38	F 1
S 2	14 12	7 4	4 7	6 53	0 58	0 18	0 29	23 40	0 40	3 49	1 9	13 18	2 26	20 18	0 38	S 2
S 3	13 52	11 3	3 26	6 16	1 13	0n13	0 26	23 37	0 40	3 53	1 9	13 18	2 27	20 18	0 38	S 3
M 4	13 32	14 37	2 36	5 42	1 29	0 45	0 22	23 33	0 41	3 58	1 8	13 19	2 27	20 19	0 38	M 4
T 5	13 12	17 36	1 40	5 11	1 44	1 16	0 19	23 29	0 42	4 3	1 8	13 19	2 27	20 19	0 38	T 5
W 6	12 51	19 52	0 38	4 43	2 0	1 48	0 15	23 25	0 43	4 8	1 8	13 18	2 27	20 20	0 38	W 6
T 7	12 31	21 16	0s27	4 19	2 15	2 20	0 12	23 21	0 43	4 13	1 8	13 18	2 28	20 20	0 38	T 7
F 8	12 10	21 39	1 32	3 59	2 29	2 51	0 8	23 16	0 44	4 18	1 8	13 18	2 28	20 21	0 38	F 8
S 9	11 49	20 53	2 34	3 44	2 43	3 23	0 5	23 12	0 45	4 23	1 8	13 18	2 28	20 21	0 38	S 9
S 10	11 28	18 56	3 30	3 33	2 56	3 54	0 1	23 7	0 46	4 27	1 7	13 18	2 28	20 22	0 38	S 10
M 11	11 6	15 50	4 16	3 27	3 8	4 25	0n 3	23 1	0 46	4 32	1 7	13 18	2 28	20 22	0 38	M 11
T 12	10 45	11 42	4 47	3 26	3 18	4 56	0 7	22 56	0 47	4 37	1 7	13 18	2 29	20 23	0 38	T 12
W 13	10 23	6 47	5 0	3 29	3 27	5 27	0 10	22 50	0 48	4 42	1 7	13 17	2 29	20 23	0 38	W 13
T 14	10 1	1 24	4 53	3 37	3 34	5 58	0 14	22 44	0 49	4 47	1 7	13 17	2 29	20 24	0 38	T 14
F 15	9 39	4s 6	4 25	3 39	3 39	6 29	0 18	22 38	0 49	4 52	1 7	13 17	2 29	20 24	0 38	F 15
S 16	9 17	9 20	3 39	4 6	3 43	7 0	0 22	22 32	0 50	4 58	1 6	13 16	2 30	20 25	0 38	S 16
S 17	8 55	13 56	2 40	4 26	3 44	7 30	0 26	22 25	0 51	5 3	1 6	13 16	2 30	20 25	0 38	S 17
M 18	8 32	17 37	1 30	4 49	3 42	8 1	0 30	22 18	0 52	5 8	1 6	13 16	2 30	20 26	0 38	M 18
T 19	8 10	20 8	0 17	5 15	3 39	8 31	0 34	22 11	0 52	5 13	1 6	13 15	2 30	20 26	0 38	T 19
W 20	7 47	21 24	0n55	5 42	3 34	9 1	0 38	22 4	0 53	5 18	1 6	13 15	2 30	20 26	0 38	W 20
T 21	7 25	21 24	2 2	6 10	3 27	9 31	0 42	21 56	0 54	5 23	1 6	13 14	2 31	20 27	0 38	T 21
F 22	7 2	20 13	3 2	6 39	3 18	10 0	0 47	21 48	0 55	5 28	1 6	13 14	2 31	20 27	0 38	F 22
S 23	6 39	18 0	3 51	7 8	3 8	10 30	0 51	21 40	0 55	5 34	1 5	13 13	2 31	20 28	0 38	S 23
S 24	6 16	14 58	4 28	7 37	2 56	10 59	0 55	21 32	0 56	5 39	1 5	13 13	2 31	20 28	0 38	S 24
M 25	5 52	11 19	4 51	8 4	2 44	11 28	0 59	21 23	0 57	5 44	1 5	13 12	2 31	20 28	0 38	M 25
T 26	5 29	7 14	5 0	8 30	2 31	11 57	1 3	21 15	0 58	5 49	1 5	13 11	2 32	20 29	0 38	T 26
W 27	5 6	2 55	4 56	8 55	2 16	12 25	1 7	21 6	0 58	5 54	1 5	13 11	2 32	20 29	0 38	W 27
T 28	4s43	1n28	4n38	9s18	2n 2	12n53	1n12	20s57	0s59	6n 0	1s 5	13s10	2n32	20n29	0n38	T 28

Julian Day Number = 2252162.5, Delta T = 06m22s

Ecliptic obliquity = 23°30'33", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'27", Lahiri = 16°14'27" Julian Calendar 1 Feb. 1454 == Greg. Calendar 10 Feb. 1454

ASTRODIENST EPHEMERIS for the year 1454

geocentric

MARCH 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 8 58	19°56'56"	4°54'54"	0°R32	1°53'53"	1°49'49"	18°V 0	12°R18	1°R32	5°R52	8°R39	0°R20	1°41'41"	14°V23	5°D58	F 1
S 2	11 12 55	20° 6'36"	16°45'	0°H18	3° 1'	2°34'	18°13'	12°M16	1°Q31	5°H50	8°Q38	0°H10	1°38'	14°29'	5°H58	S 2
S 3	11 16 51	21° 6'14"	28°33'	0°10'	4° 9'	3°19'	18°27'	12°14'	1°29'	5°49'	8°37'	0° 3'	1°35'	14°36'	5°58'	S 3
M 4	11 20 48	22° 5'50"	10°B21	0°D 9'	5°16'	4° 5'	18°41'	12°12'	1°28'	5°47'	8°36'	29°M58	1°31'	14°43'	5°59'	M 4
T 5	11 24 44	23° 5'23"	22°13'	0°13'	6°24'	4°50'	18°54'	12°10'	1°26'	5°45'	8°35'	29°56'	1°28'	14°49'	5°59'	T 5
W 6	11 28 41	24° 4'55"	4°II13	0°23'	7°31'	5°35'	19° 8'	12° 8'	1°25'	5°44'	8°34'	29°D56	1°25'	14°56'	5°59'	W 6
T 7	11 32 37	25° 4'24"	16°26'	0°39'	8°38'	6°21'	19°22'	12° 6'	1°24'	5°42'	8°33'	29°57'	1°22'	15° 3'	6° 0'	T 7
F 8	11 36 34	26° 3'51"	28°57'	0°59'	9°45'	7° 6'	19°36'	12° 3'	1°23'	5°41'	8°32'	29°R57	1°19'	15° 9'	6° 0'	F 8
S 9	11 40 30	27° 3'16"	11°E51	1°25'	10°52'	7°52'	19°49'	12° 1'	1°21'	5°39'	8°31'	29°56'	1°15'	15°16'	6° 1'	S 9
S 10	11 44 27	28° 2'38"	25°12'	1°54'	11°58'	8°37'	20° 3'	11°58'	1°20'	5°37'	8°31'	29°53'	1°12'	15°23'	6° 2'	S 10
M 11	11 48 24	29° 1'57"	9°Q 3	2°29'	13° 5'	9°22'	20°17'	11°56'	1°19'	5°36'	8°30'	29°47'	1° 9'	15°29'	6° 3'	M 11
T 12	11 52 20	0°V 1'15"	23°23'	3° 7'	14°11'	10° 8'	20°31'	11°53'	1°18'	5°34'	8°29'	29°40'	1° 6'	15°36'	6° 4'	T 12
W 13	11 56 17	1° 0'30"	8°M10	3°49'	15°16'	10°53'	20°45'	11°50'	1°17'	5°32'	8°28'	29°31'	1° 3'	15°43'	6° 5'	W 13
T 14	12 0 13	1°59'43"	23°17'	4°35'	16°22'	11°39'	20°59'	11°47'	1°16'	5°31'	8°27'	29°22'	1° 0'	15°49'	6° 6'	T 14
F 15	12 4 10	2°58'54"	8°H33	5°24'	17°27'	12°24'	21°13'	11°44'	1°16'	5°29'	8°27'	29°14'	0°56'	15°56'	6° 8'	F 15
S 16	12 8 6	3°58'02"	23°47'	6°17'	18°32'	13°10'	21°27'	11°41'	1°15'	5°28'	8°26'	29° 8'	0°53'	16° 3'	6° 9'	S 16
S 17	12 12 3	4°57'09"	8°M50	7°12'	19°37'	13°55'	21°41'	11°38'	1°14'	5°26'	8°25'	29° 4'	0°50'	16° 9'	6°10'	S 17
M 18	12 15 59	5°56'14"	23°34'	8°11'	20°41'	14°41'	21°55'	11°35'	1°13'	5°24'	8°25'	29°D 2	0°47'	16°16'	6°12'	M 18
T 19	12 19 56	6°55'18"	7°H53	9°12'	21°46'	15°26'	22°10'	11°32'	1°13'	5°23'	8°24'	29° 2'	0°44'	16°23'	6°14'	T 19
W 20	12 23 52	7°54'19"	21°46'	10°16'	22°49'	16°12'	22°24'	11°28'	1°12'	5°21'	8°23'	29° 3'	0°41'	16°30'	6°15'	W 20
T 21	12 27 49	8°53'19"	5°H14	11°22'	23°53'	16°57'	22°38'	11°25'	1°11'	5°19'	8°23'	29°R 4	0°37'	16°36'	6°17'	T 21
F 22	12 31 46	9°52'17"	18°20'	12°31'	24°57'	17°43'	22°52'	11°22'	1°11'	5°18'	8°22'	29° 4'	0°34'	16°43'	6°19'	F 22
S 23	12 35 42	10°51'13"	1°H 5	13°42'	26° 0'	18°29'	23° 6'	11°18'	1°11'	5°16'	8°22'	29° 2'	0°31'	16°50'	6°21'	S 23
S 24	12 39 39	11°50'07"	13°35'	14°55'	27° 2'	19°14'	23°21'	11°15'	1°10'	5°14'	8°21'	28°57'	0°28'	16°56'	6°23'	S 24
M 25	12 43 35	12°49'00"	25°52'	16°11'	28° 5'	20° 0'	23°35'	11°11'	1°10'	5°13'	8°21'	28°51'	0°25'	17° 3'	6°25'	M 25
T 26	12 47 32	13°47'50"	7°H59	17°28'	29° 7'	20°45'	23°49'	11° 7'	1°10'	5°11'	8°20'	28°44'	0°21'	17°10'	6°28'	T 26
W 27	12 51 28	14°46'39"	19°58'	18°48'	0°II 9	21°31'	24° 4'	11° 3'	1° 9'	5° 9'	8°20'	28°35'	0°18'	17°16'	6°30'	W 27
T 28	12 55 25	15°45'26"	1°V52	20° 9'	1°10'	22°16'	24°18'	11° 0'	1° 9'	5° 8'	8°19'	28°27'	0°15'	17°23'	6°33'	T 28
F 29	12 59 21	16°44'11"	13°43'	21°33'	2°11'	23° 2'	24°32'	10°56'	1° 9'	5° 6'	8°19'	28°19'	0°12'	17°30'	6°35'	F 29
S 30	13 3 18	17°42'54"	25°32'	22°58'	3°12'	23°47'	24°47'	10°52'	1° 9'	5° 5'	8°19'	28°13'	0° 9'	17°36'	6°38'	S 30
S 31	13 7 15	18°V41'35"	7°H21	24°H25	4°II12	24°H33	25°V 1	10°M48	1°D 9	5°H 3	8°Q18	28°M 9	0°H 6	17°V43	6°H41	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4s19	5n45	4n 9	9s39	1n47	13n21	1n16	20s47	1s 0	6n 5	1s 5	13s 9	2n32	20n30	0n38	F 1
S 2	3 56	9 48	3 28	9 57	1 33	13 48	1 20	20 38	1 1	6 10	1 5	13 9	2 32	20 30	0 38	S 2
S 3	3 32	13 28	2 39	10 14	1 18	14 16	1 24	20 28	1 1	6 16	1 4	13 8	2 33	20 30	0 38	S 3
M 4	3 9	16 35	1 42	10 28	1 3	14 42	1 28	20 18	1 2	6 21	1 4	13 7	2 33	20 31	0 38	M 4
T 5	2 45	19 2	0 41	10 40	0 49	15 9	1 33	20 8	1 3	6 26	1 4	13 6	2 33	20 31	0 38	T 5
W 6	2 21	20 41	0s23	10 50	0 35	15 35	1 37	19 57	1 4	6 31	1 4	13 5	2 33	20 31	0 38	W 6
T 7	1 58	21 22	1 27	10 57	0 21	16 1	1 41	19 47	1 4	6 37	1 4	13 4	2 33	20 31	0 38	T 7
F 8	1 34	21 2	2 28	11 2	0 7	16 27	1 45	19 36	1 5	6 42	1 4	13 4	2 34	20 32	0 38	F 8
S 9	1 10	19 35	3 24	11 5	0s 5	16 52	1 49	19 25	1 6	6 47	1 4	13 3	2 34	20 32	0 38	S 9
S 10	0 47	17 2	4 11	11 6	0 18	17 16	1 54	19 14	1 6	6 53	1 4	13 2	2 34	20 32	0 38	S 10
M 11	0 23	13 27	4 45	11 5	0 30	17 41	1 58	19 2	1 7	6 58	1 4	13 1	2 34	20 32	0 38	M 11
T 12	0n 0	8 59	5 3	11 2	0 41	18 5	2 2	18 51	1 8	7 3	1 3	13 0	2 34	20 33	0 38	T 12
W 13	0 24	3 52	5 1	10 57	0 52	18 28	2 6	18 39	1 9	7 9	1 3	12 59	2 34	20 33	0 38	W 13
T 14	0 48	1s36	4 39	10 50	1 2	18 51	2 10	18 27	1 9	7 14	1 3	12 58	2 35	20 33	0 38	T 14
F 15	1 11	7 1	3 57	10 41	1 12	19 14	2 14	18 15	1 10	7 19	1 3	12 57	2 35	20 33	0 38	F 15
S 16	1 35	12 0	2 57	10 30	1 22	19 36	2 18	18 3	1 11	7 25	1 3	12 56	2 35	20 33	0 38	S 16
S 17	1 58	16 10	1 46	10 17	1 30	19 58	2 22	17 50	1 11	7 30	1 3	12 55	2 35	20 33	0 38	S 17
M 18	2 22	19 12	0 29	10 3	1 38	20 19	2 26	17 38	1 12	7 36	1 3	12 53	2 35	20 34	0 38	M 18
T 19	2 45	20 54	0n47	9 47	1 46	20 40	2 30	17 25	1 13	7 41	1 3	12 52	2 35	20 34	0 38	T 19
W 20	3 9	21 16	1 59	9 29	1 53	21 1	2 34	17 12	1 14	7 46	1 3	12 51	2 35	20 34	0 38	W 20
T 21	3 32	20 22	3 2	9 10	2 0	21 21	2 38	16 59	1 14	7 52	1 3	12 50	2 36	20 34	0 38	T 21
F 22	3 55	18 23	3 54	8 49	2 6	21 40	2 41	16 45	1 15	7 57	1 3	12 49	2 36	20 34	0 38	F 22
S 23	4 18	15 32	4 32	8 27	2 11	21 59	2 45	16 32	1 16	8 2	1 3	12 48	2 36	20 34	0 38	S 23
S 24	4 42	12 3	4 57	8 3	2 16	22 17	2 49	16 18	1 16	8 8	1 2	12 46	2 36	20 34	0 38	S 24
M 25	5 5	8 6	5 8	7 37	2 20	22 35	2 52	16 5	1 17	8 13	1 2	12 45	2 36	20 34	0 38	M 25
T 26	5 28	3 54	5 4	7 10	2 24	22 53	2 56	15 51	1 18	8 18	1 2	12 44	2 36	20 34	0 38	T 26
W 27	5 50	0n25	4 47	6 42	2 27	23 9	2 59	15 37	1 18	8 24	1 2	12 43	2 36	20 34	0 37	W 27
T 28	6 13	4 41	4 18	6 13	2 30	23 26	3 3	15 22	1 19	8 29	1 2	12 42	2 36	20 34	0 37	T 28
F 29	6 36	8 46	3 37	5 42	2 32	23 42	3 6	15 8	1 20	8 34	1 2	12 40	2 36	20 34	0 37	F 29
S 30	6 58	12 30	2 48	5 9	2 34	23 57	3 9	14 53	1 20	8 40	1 2	12 39	2 37	20 34	0 37	S 30
S 31	7n21	15n45	1n51	4s36	2s35	24n12	3n12	14s39	1s21	8n45	1s 2	12s38	2n37	20n34	0n37	S 31

Julian Day Number = 2252190.5, Delta T = 06m22s

Ecliptic obliquity = 23°30'33", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'31", Lahiri = 16°14'31" Julian Calendar 1 March 1454 == Greg. Calendar 10 March 1454

ASTRODIENST EPHEMERIS for the year 1454

geocentric

APRIL 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 11 11	19°40'14	19°13	25°54	5°12	25°19	25°15	10°R44	1°9	5°R 1	8°R18	28°R 7	0°2	17°Y50	6°43	M 1
T 2	13 15 8	20°38'51	1°11	27°24	6°12	26° 4	25°30	10°M40	1° 9	5° 0	8°D18	28°D 7	29°M59	17°56	6°46	T 2
W 3	13 19 4	21°37'25	13°14	28°57	7°11	26°50	25°44	10°36	1° 9	4°58	8°17	28°M 8	29°56	18° 3	6°49	W 3
T 4	13 23 1	22°35'58	25°30	0°Y31	8°10	27°35	25°58	10°32	1° 9	4°57	8°17	28° 9	29°53	18°10	6°52	T 4
F 5	13 26 57	23°34'29	8°2	2° 6	9° 8	28°21	26°13	10°27	1°10	4°55	8°17	28°11	29°50	18°16	6°55	F 5
S 6	13 30 54	24°32'57	20°54	3°44	10° 6	29° 6	26°27	10°23	1°10	4°54	8°17	28°R12	29°46	18°23	6°59	S 6
S 7	13 34 50	25°31'23	4°Q10	5°23	11° 3	29°52	26°42	10°19	1°10	4°52	8°17	28°11	29°43	18°30	7° 2	S 7
M 8	13 38 47	26°29'47	17°52	7° 4	12° 0	0°K37	26°56	10°15	1°11	4°51	8°17	28°10	29°40	18°36	7° 5	M 8
T 9	13 42 44	27°28'09	2°M 2	8°47	12°56	1°23	27°10	10°10	1°11	4°49	8°16	28° 7	29°37	18°43	7° 9	T 9
W10	13 46 40	28°26'28	16°38	10°31	13°52	2° 8	27°25	10° 6	1°12	4°48	8°16	28° 3	29°34	18°50	7°12	W10
T 11	13 50 37	29°24'46	1°A34	12°17	14°47	2°54	27°39	10° 2	1°12	4°46	8°16	27°59	29°31	18°56	7°16	T 11
F 12	13 54 33	0°B23'01	16°44	14° 5	15°42	3°39	27°53	9°57	1°13	4°45	8°D16	27°55	29°27	19° 3	7°20	F 12
S 13	13 58 30	1°21'15	1°M59	15°55	16°36	4°24	28° 8	9°53	1°14	4°43	8°16	27°53	29°24	19°10	7°23	S 13
S 14	14 2 26	2°19'27	17° 7	17°46	17°30	5°10	28°22	9°48	1°14	4°42	8°16	27°51	29°21	19°17	7°27	S 14
M15	14 6 23	3°17'37	2°A 0	19°39	18°23	5°55	28°36	9°44	1°15	4°40	8°17	27°D51	29°18	19°23	7°31	M15
T 16	14 10 19	4°15'46	16°30	21°34	19°15	6°41	28°51	9°39	1°16	4°39	8°17	27°51	29°15	19°30	7°35	T 16
W17	14 14 16	5°13'53	0°B35	23°31	20° 6	7°26	29° 5	9°35	1°17	4°38	8°17	27°53	29°12	19°37	7°39	W17
T 18	14 18 13	6°11'59	14°13	25°29	20°57	8°11	29°19	9°30	1°18	4°36	8°17	27°54	29° 8	19°43	7°43	T 18
F 19	14 22 9	7°10'03	27°25	27°29	21°47	8°57	29°34	9°26	1°19	4°35	8°17	27°55	29° 5	19°50	7°48	F 19
S 20	14 26 6	8° 8'06	10°A14	29°31	22°37	9°42	29°48	9°21	1°20	4°34	8°17	27°R56	29° 2	19°57	7°52	S 20
S 21	14 30 2	9° 6'07	22°43	1°B34	23°25	10°27	0°B 2	9°17	1°21	4°32	8°18	27°55	28°59	20° 3	7°56	S 21
M22	14 33 59	10° 4'07	4°K57	3°39	24°13	11°13	0°17	9°12	1°22	4°31	8°18	27°53	28°56	20°10	8° 1	M22
T 23	14 37 55	11° 2'06	16°59	5°45	25° 0	11°58	0°31	9° 8	1°23	4°30	8°18	27°51	28°52	20°17	8° 5	T 23
W24	14 41 52	12° 0'03	28°54	7°52	25°47	12°43	0°45	9° 3	1°25	4°28	8°19	27°49	28°49	20°23	8°10	W24
T 25	14 45 48	12°57'59	10°Y44	10° 1	26°32	13°28	0°59	8°59	1°26	4°27	8°19	27°47	28°46	20°30	8°14	T 25
F 26	14 49 45	13°55'53	22°32	12°10	27°16	14°14	1°13	8°54	1°27	4°26	8°19	27°45	28°43	20°37	8°19	F 26
S 27	14 53 41	14°53'46	4°B22	14°21	28° 0	14°59	1°28	8°50	1°29	4°25	8°20	27°43	28°40	20°43	8°24	S 27
S 28	14 57 38	15°51'38	16°15	16°31	28°42	15°44	1°42	8°45	1°30	4°24	8°20	27°42	28°37	20°50	8°28	S 28
M29	15 1 35	16°49'28	28°14	18°42	29°24	16°29	1°56	8°41	1°32	4°23	8°21	27°D42	28°33	20°57	8°33	M29
T 30	15 5 31	17°47'17	10°I20	20°B54	0°B 4	17°K14	2°B10	8°M37	1°Q33	4°A21	8°Q21	27°M42	28°M30	21°Y 3	8°B38	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	
M 1	7n43	18n21	0n48	4s 1	2s36	24n26	3n15	14s24	1s22	8n50	1s 2	12s36	2n37	20n34	0n37	M 1
T 2	8 5	20 11	0s17	3 25	2 36	24 40	3 18	14 9	1 22	8 56	1 2	12 35	2 37	20 34	0 37	T 2
W 3	8 27	21 6	1 22	2 48	2 35	24 53	3 21	13 54	1 23	9 1	1 2	12 34	2 37	20 34	0 37	W 3
T 4	8 49	21 2	2 24	2 9	2 34	25 5	3 24	13 39	1 23	9 6	1 2	12 32	2 37	20 34	0 37	T 4
F 5	9 11	19 55	3 21	1 30	2 33	25 17	3 27	13 24	1 24	9 11	1 2	12 31	2 37	20 34	0 37	F 5
S 6	9 32	17 46	4 9	0 49	2 31	25 29	3 29	13 8	1 25	9 17	1 2	12 30	2 37	20 34	0 37	S 6
S 7	9 54	14 38	4 46	0 7	2 28	25 39	3 32	12 53	1 25	9 22	1 2	12 28	2 37	20 34	0 37	S 7
M 8	10 15	10 38	5 8	0n35	2 25	25 50	3 34	12 37	1 26	9 27	1 2	12 27	2 37	20 34	0 37	M 8
T 9	10 36	5 55	5 12	1 19	2 22	25 59	3 36	12 22	1 26	9 32	1 2	12 25	2 37	20 33	0 37	T 9
W10	10 57	0 44	4 57	2 4	2 17	26 9	3 38	12 6	1 27	9 38	1 2	12 24	2 37	20 33	0 37	W10
T 11	11 18	4s37	4 21	2 50	2 13	26 17	3 40	11 50	1 28	9 43	1 1	12 23	2 37	20 33	0 37	T 11
F 12	11 38	9 47	3 27	3 37	2 8	26 25	3 42	11 34	1 28	9 48	1 1	12 21	2 37	20 33	0 37	F 12
S 13	11 59	14 21	2 17	4 24	2 2	26 33	3 44	11 18	1 29	9 53	1 1	12 20	2 37	20 33	0 37	S 13
S 14	12 19	17 56	0 59	5 12	1 56	26 40	3 45	11 2	1 29	9 58	1 1	12 18	2 37	20 33	0 37	S 14
M15	12 39	20 15	0n23	6 2	1 49	26 46	3 47	10 46	1 30	10 3	1 1	12 17	2 37	20 32	0 37	M15
T 16	12 59	21 9	1 41	6 51	1 42	26 52	3 48	10 29	1 30	10 8	1 1	12 16	2 37	20 32	0 37	T 16
W17	13 18	20 40	2 51	7 42	1 34	26 57	3 49	10 13	1 31	10 14	1 1	12 14	2 37	20 32	0 37	W17
T 18	13 38	18 58	3 49	8 33	1 26	27 2	3 50	9 56	1 32	10 19	1 1	12 13	2 37	20 32	0 37	T 18
F 19	13 57	16 17	4 32	9 24	1 18	27 6	3 51	9 40	1 32	10 24	1 1	12 11	2 37	20 31	0 37	F 19
S 20	14 16	12 54	5 1	10 15	1 9	27 10	3 52	9 23	1 33	10 29	1 1	12 10	2 37	20 31	0 37	S 20
S 21	14 34	9 1	5 14	11 7	1 0	27 13	3 52	9 6	1 33	10 34	1 1	12 9	2 37	20 31	0 37	S 21
M22	14 53	4 52	5 13	11 59	0 50	27 15	3 53	8 49	1 34	10 39	1 1	12 7	2 37	20 31	0 37	M22
T 23	15 11	0 34	4 58	12 51	0 40	27 17	3 53	8 33	1 34	10 44	1 1	12 6	2 37	20 30	0 37	T 23
W24	15 29	3n42	4 31	13 42	0 30	27 19	3 53	8 16	1 35	10 49	1 1	12 4	2 37	20 30	0 37	W24
T 25	15 47	7 48	3 52	14 33	0 20	27 20	3 52	7 59	1 35	10 54	1 1	12 3	2 37	20 30	0 37	T 25
F 26	16 4	11 37	3 3	15 23	0 9	27 21	3 52	7 42	1 36	10 59	1 1	12 2	2 37	20 29	0 37	F 26
S 27	16 21	14 59	2 6	16 12	0n 1	27 21	3 51	7 25	1 36	11 4	1 1	12 0	2 37	20 29	0 37	S 27
S 28	16 38	17 45	1 3	17 1	0 12	27 20	3 50	7 7	1 37	11 9	1 1	11 59	2 37	20 29	0 37	S 28
M29	16 55	19 47	0s 3	17 48	0 22	27 20	3 49	6 50	1 37	11 13	1 1	11 58	2 37	20 28	0 37	M29
T 30	17n11	20n55	1s10	18n33	0n33	27n18	3n48	6s33	1s37	11n18	1s 1	11s56	2n37	20n28	0n37	T 30

Julian Day Number = 2252221.5, Delta T = 06m22s

Ecliptic obliquity = 23°30'33", Nutation = 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'35", Lahiri = 16°14'35" Julian Calendar 1 Apr. 1454 == Greg. Calendar 10 Apr. 1454

ASTRODIENST EPHEMERIS for the year 1454

geocentric

MAY 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 9 28	18°45'04	22°11'35	23°8'4	0°54'3	17°59'59	2°24'8	8°R32	1°03'35	4°R20	8°02'22	27°M43	28°M27	21°Y10	8°54'3	W 1
T 2	15 13 24	19°42'49	5°3'3	25°15'	1°21'	18°44'	2°38'	8°M28	1°36'	4°19'	8°22'	27°44'	28°24'	21°17'	8°48'	T 2
F 3	15 17 21	20°40'33	17°45'	27°24'	1°58'	19°29'	2°52'	8°23'	1°38'	4°18'	8°23'	27°44'	28°21'	21°23'	8°53'	F 3
S 4	15 21 17	21°38'16	0°04'3	29°33'	2°34'	20°14'	3°6'	8°19'	1°40'	4°17'	8°23'	27°45'	28°18'	21°30'	8°59'	S 4
S 5	15 25 14	22°35'56	14°0'	1°11'40	3°8'	20°59'	3°20'	8°15'	1°42'	4°16'	8°24'	27°45'	28°14'	21°37'	9°4'	S 5
M 6	15 29 10	23°33'36	27°38'	3°45'	3°41'	21°44'	3°34'	8°10'	1°44'	4°15'	8°25'	27°R45	28°11'	21°43'	9°9'	M 6
T 7	15 33 7	24°31'13	11°10'37	5°49'	4°13'	22°29'	3°48'	8°6'	1°45'	4°14'	8°25'	27°45'	28°8'	21°50'	9°14'	T 7
W 8	15 37 4	25°28'49	25°57'	7°51'	4°43'	23°13'	4°2'	8°2'	1°47'	4°14'	8°26'	27°45'	28°5'	21°57'	9°20'	W 8
T 9	15 41 0	26°26'23	10°15'35	9°50'	5°11'	23°58'	4°15'	7°58'	1°49'	4°13'	8°27'	27°45'	28°2'	22°3'	9°25'	T 9
F 10	15 44 57	27°23'56	25°27'	11°47'	5°38'	24°43'	4°29'	7°54'	1°51'	4°12'	8°27'	27°D45	27°58'	22°10'	9°31'	F 10
S 11	15 48 53	28°21'28	10°11'25	13°42'	6°4'	25°28'	4°43'	7°50'	1°53'	4°11'	8°28'	27°45'	27°55'	22°17'	9°36'	S 11
S 12	15 52 50	29°18'58	25°21'	15°34'	6°27'	26°12'	4°57'	7°46'	1°55'	4°10'	8°29'	27°R45	27°52'	22°23'	9°42'	S 12
M13	15 56 46	0°11'16'28	10°11'8	17°23'	6°49'	26°57'	5°10'	7°42'	1°58'	4°9'	8°30'	27°45'	27°49'	22°30'	9°47'	M13
T 14	16 0 43	1°13'56	24°39'	19°10'	7°10'	27°41'	5°24'	7°38'	2°0'	4°9'	8°31'	27°44'	27°46'	22°37'	9°53'	T 14
W15	16 4 39	2°11'24	8°34'48	20°54'	7°28'	28°26'	5°37'	7°34'	2°2'	4°8'	8°32'	27°44'	27°43'	22°43'	9°59'	W15
T 16	16 8 36	3°8'50	22°32'	22°36'	7°44'	29°10'	5°51'	7°30'	2°4'	4°7'	8°32'	27°43'	27°39'	22°50'	10°4'	T 16
F 17	16 12 33	4°6'16	5°55'50	24°14'	7°59'	29°55'	6°4'	7°26'	2°7'	4°7'	8°33'	27°43'	27°36'	22°57'	10°10'	F 17
S 18	16 16 29	5°3'41	18°44'	25°50'	8°11'	0°Y39	6°18'	7°22'	2°9'	4°6'	8°34'	27°42'	27°33'	23°3'	10°16'	S 18
S 19	16 20 26	6°1'05	1°X17	27°23'	8°21'	1°23'	6°31'	7°19'	2°11'	4°5'	8°35'	27°D42	27°30'	23°10'	10°22'	S 19
M20	16 24 22	6°58'29	13°32'	28°52'	8°29'	2°8'	6°44'	7°15'	2°14'	4°5'	8°36'	27°42'	27°27'	23°17'	10°28'	M20
T 21	16 28 19	7°55'52	25°34'	0°51'19	8°35'	2°52'	6°58'	7°12'	2°16'	4°4'	8°37'	27°42'	27°24'	23°23'	10°34'	T 21
W22	16 32 15	8°53'14	7°Y27	1°43'	8°39'	3°36'	7°11'	7°8'	2°19'	4°4'	8°38'	27°43'	27°20'	23°30'	10°40'	W22
T 23	16 36 12	9°50'36	19°16'	3°4'	8°R40	4°20'	7°24'	7°5'	2°21'	4°3'	8°39'	27°44'	27°17'	23°37'	10°46'	T 23
F 24	16 40 8	10°47'57	1°8'5	4°22'	8°40'	5°4'	7°37'	7°1'	2°24'	4°3'	8°41'	27°46'	27°14'	23°43'	10°52'	F 24
S 25	16 44 5	11°45'17	12°58'	5°37'	8°36'	5°48'	7°50'	6°58'	2°27'	4°2'	8°42'	27°47'	27°11'	23°50'	10°58'	S 25
S 26	16 48 2	12°42'37	24°57'	6°49'	8°31'	6°32'	8°3'	6°55'	2°29'	4°2'	8°43'	27°R47	27°8'	23°57'	11°4'	S 26
M27	16 51 58	13°39'57	7°II 6	7°57'	8°23'	7°16'	8°16'	6°52'	2°32'	4°2'	8°44'	27°47'	27°4'	24°3'	11°11'	M27
T 28	16 55 55	14°37'16	19°26'	9°3'	8°12'	7°59'	8°29'	6°48'	2°35'	4°1'	8°45'	27°46'	27°1'	24°10'	11°17'	T 28
W29	16 59 51	15°34'34	1°58'58	10°5'	8°0'	8°43'	8°42'	6°45'	2°37'	4°1'	8°46'	27°44'	26°58'	24°17'	11°23'	W29
T 30	17 3 48	16°31'51	14°44'	11°3'	7°44'	9°27'	8°55'	6°42'	2°40'	4°1'	8°47'	27°42'	26°55'	24°23'	11°29'	T 30
F 31	17 7 44	17°11'29'08	27°54'4	11°58'58	7°52'27	10°Y10	9°8'8	6°M40	2°04'3	4°1'1	8°04'9	27°M39	26°M52	24°Y30	11°53'6	F 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17n27	21n 4	2s14	19n17	0n43	27n17	3n46	6s16	1s38	11n23	1 s 1	11s55	2n37	20n28	0n37	0s15	1n37	25n53	7n57	19s42	19s52	11n10	16n52	6s22			
T 2	17 43	20 12	3 13	19 59	0 53	27 14	3 44	5 59	1 38	11 28	1 1	11 54	2 37	20 27	0 37	0 15	1 37	25 53	7 57	19 43	19 52	11 12	16 53	6 21			
F 3	17 58	18 18	4 4	20 39	1 2	27 12	3 42	5 41	1 39	11 33	1 1	11 52	2 37	20 27	0 36	0 14	1 37	25 53	7 57	19 43	19 51	11 14	16 53	6 21			
S 4	18 14	15 27	4 43	21 16	1 11	27 9	3 40	5 24	1 39	11 37	1 1	11 51	2 36	20 26	0 36	0 14	1 37	25 52	7 56	19 43	19 50	11 16	16 53	6 20			
S 5	18 28	11 45	5 9	21 52	1 20	27 5	3 37	5 7	1 40	11 42	1 1	11 50	2 36	20 26	0 36	0 13	1 37	25 52	7 56	19 43	19 50	11 18	16 53	6 20			
M 6	18 43	7 21	5 18	22 24	1 28	27 2	3 34	4 49	1 40	11 47	1 1	11 48	2 36	20 25	0 36	0 13	1 37	25 52	7 56	19 43	19 49	11 20	16 53	6 20			
T 7	18 57	2 28	5 8	22 54	1 36	26 57	3 31	4 32	1 40	11 52	1 1	11 47	2 36	20 25	0 36	0 13	1 37	25 51	7 56	19 43	19 48	11 22	16 53	6 19			
W 8	19 11	2s40	4 40	23 22	1 43	26 53	3 27	4 14	1 41	11 56	1 1	11 46	2 36	20 25	0 36	0 12	1 37	25 51	7 56	19 43	19 47	11 23	16 53	6 19			
T 9	19 25	7 47	3 53	23 47	1 49	26 48	3 24	3 57	1 41	12 1	1 1	11 45	2 36	20 24	0 36	0 12	1 37	25 51	7 56	19 43	19 47	11 25	16 53	6 19			
F 10	19 38	12 30	2 50	24 9	1 54	26 43	3 19	3 39	1 42	12 6	1 1	11 44	2 36	20 24	0 36	0 12	1 37	25 50	7 56	19 43	19 46	11 27	16 53	6 18			
S 11	19 51	16 29	1 35	24 29	1 59	26 37	3 15	3 22	1 42	12 10	1 1	11 42	2 36	20 23	0 36	0 12	1 36	25 50	7 55	19 43	19 45	11 29	16 53	6 18			
S 12	20 4	19 22	0 13	24 46	2 3	26 31	3 10	3 5	1 42	12 15	1 1	11 41	2 36	20 23	0 36	0 11	1 36	25 50	7 55	19 43	19 45	11 31	16 52	6 18			
M13	20 16	20 54	1n 8	25 0	2 6	26 25	3 5	2 47	1 43	12 19	1 1	11 40	2 35	20 22	0 36	0 11	1 36	25 49	7 55	19 43	19 44	11 33	16 52	6 17			
T 14	20 28	21 0	2 24	25 12	2 9	26 18	2 59	2 30	1 43	12 24	1 1	11 39	2 35	20 22	0 36	0 11	1 36	25 49	7 55	19 43	19 43	11 34	16 52	6 17			
W15	20 40	19 45	3 29	25 22	2 10	26 11	2 53	2 12	1 43	12 28	1 1	11 38	2 35	20 21	0 36	0 10	1 36	25 49	7 55	19 43	19 42	11 36	16 52	6 17			
T 16	20 51	17 21	4 20	25 29	2 11	26 4	2 47	1 55	1 43	12 33	1 1	11 37	2 35	20 21	0 36	0 10	1 36	25 48	7 55	19 43	19 42	11 38	16 52	6 16			
F 17	21 2	14 6	4 55	25 34	2 12	25 56	2 40	1 37	1 44	12 37	1 1	11 36	2 35	20 20	0 36	0 10	1 36	25 48	7 55	19 42	19 41	11 40	16 52	6 16			
S 18	21 12	10 17	5 14	25 37	2 11	25 48	2 33	1 20	1 44	12 42	1 1	11 35	2 35	20 19	0 36	0 10	1 36	25 47	7 55	19 42	19 40	11 42	16 52	6 16			
S 19	21 22	6 7	5 17	25 38	2 9	25 40	2 26	1 2	1 44	12 46	1 1	11 33	2 34	20 19	0 36	0 10	1 36	25 47	7 54	19 42	19 40	11 44	16 52	6 16			
M20	21 32	1 48	5 5	25 38	2 7	25 32	2 18	0 45	1 45	12 50	1 1	11 32	2 34	20 18	0 36	0 9	1 36	25 47	7 54	19 42	19 39	11 45	16 51	6 15			
T 21	21 42	2n31	4 41	25 35	2 4	25 23	2 10	0 28	1 45	12 55	1 1	11 31	2 34	20 18	0 36	0 9	1 36	25 46	7 54	19 42	19 38	11 47	16 51	6 15			
W22	21 51	6 42	4 4	25 30	2 1	25 14	2 1	0 10	1 45	12 59	1 1	11 30	2 34	20 17	0 36	0 9	1 36	25 46	7 54	19 43	19 37	11 49	16 51	6 15			
T 23	21 59	10 37	3 18	25 24	1 56	25 5	1 52	0n 7	1 45	13 3	1 2	11 30	2 34	20 17	0 36	0 9	1 36	25 45	7 54	19 43	19 37	11 51	16 51	6 15			
F 24	22 8	14 7	2 23	25 17	1 51	24 55	1 42	0 24	1 46	13 7	1 2	11 29	2 34	20 16	0 36	0 9	1 36	25 45	7 54	19 43	19 36	11 53	16 51	6 14			
S 25	22 16	17 4	1 21	25 8	1 45	24 46	1 32	0 42	1 46	13 12	1 2	11 28	2 33	20 15	0 36	0 9	1 36	25 45	7 54	19 43	19 35	11 54	16 50	6 14			
S 26	22 23	19 19	0 16	24 58	1 38	24 36	1 22	0 59	1 46	13 16	1 2	11 27	2 33	20 15	0 36	0 9	1 36	25 44	7 54	19 43	19 34	11 56	16 50	6 14			
M27	22 30	20 43	0s1	24 47	1 31	24 25	1 11	1 16	1 46	13 20	1 2	11 26	2 33	20 14	0 36	0 8	1 36	25 44	7 53	19 43	19 34	11 58	16 50	6 14			
T 28	22 37	21 9	1 57	24 34	1 23	24 15	0 59	1 33	1 46	13 24	1 2	11 25	2 33	20 13	0 36	0 8	1 36	25 43	7 53	19 43	19 33	12 0	16 50	6 13			
W29	22 44	20 32	2 58	24 21	1 14	24 4	0 48	1 50	1 47	13 28	1 2	11 24	2 33	20 13	0 36	0 8	1 36	25 43	7 53	19 43	19 32	12 2	16 49	6 13			
T 30	22 49	18 52	3 51	24 7	1 4	23 53	0 36	2 7	1 47	13 32	1 2	11 24	2 32	20 12	0 36	0 8	1 36	25 42	7 53	19 42	19 31	12 3	16 49	6 13			
F 31	22n55	16n13	4s33	23n52	0n54	23n41	0n23	2n24	1s47	13n36	1 s 2	11s23	2n32	20n11	0n36	0s 8	1n36	25n42	7n53	19s42	19s31	12n 5	16n49	6s13			

ASTRODIENST EPHEMERIS for the year 1454

geocentric

JUNE 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 11 41	18 ^{II} 26'24	10 ^Ω 58	12 [♂] 50	7°R 7	10 ^Υ 54	9 [♂] 20	6°R37	2 ^Ω 46	4°R 0	8 ^Ω 50	27°R36	26 [♂] 49	24 ^Υ 37	11 [♂] 42	S 1
S 2	17 15 38	19°23'39	24°26	13°38	6 [♂] 45	11°37	9°33	6 [♂] 34	2°49	4 [♂] 0	8°51	27 [♂] 34	26°45	24°43	11°48	S 2
M 3	17 19 34	20°20'53	8 [♂] 8	14°22	6°21	12°21	9°45	6°31	2°52	4° 0	8°53	27°32	26°42	24°50	11°55	M 3
T 4	17 23 31	21°18'07	22° 4	15° 2	5°54	13° 4	9°58	6°29	2°55	4° 0	8°54	27°D32	26°39	24°57	12° 1	T 4
W 5	17 27 27	22°15'20	6 [♂] 13	15°38	5°26	13°47	10°10	6°26	2°58	4° 0	8°55	27°32	26°36	25° 3	12° 8	W 5
T 6	17 31 24	23°12'32	20°33	16°10	4°56	14°30	10°22	6°24	3° 1	4°D 0	8°57	27°33	26°33	25°10	12°14	T 6
F 7	17 35 20	24° 9'44	5 [♂] 2	16°38	4°24	15°13	10°35	6°22	3° 4	4° 0	8°58	27°35	26°29	25°17	12°21	F 7
S 8	17 39 17	25° 6'55	19°36	17° 1	3°51	15°56	10°47	6°20	3° 7	4° 0	8°59	27°36	26°26	25°23	12°27	S 8
S 9	17 43 13	26° 4'05	4 [♂] 9	17°20	3°17	16°39	10°59	6°17	3°10	4° 0	9° 1	27°R36	26°23	25°30	12°34	S 9
M10	17 47 10	27° 1'15	18°38	17°35	2°41	17°22	11°11	6°15	3°13	4° 0	9° 2	27°35	26°20	25°37	12°40	M10
T 11	17 51 7	27°58'25	2 [♂] 55	17°45	2° 5	18° 5	11°23	6°13	3°16	4° 0	9° 4	27°32	26°17	25°43	12°47	T 11
W12	17 55 3	28°55'35	16°55	17°50	1°28	18°47	11°34	6°12	3°20	4° 1	9° 5	27°28	26°14	25°50	12°54	W12
T 13	17 59 0	29°52'45	0 [♂] 35	17°R51	0°50	19°30	11°46	6°10	3°23	4° 1	9° 7	27°23	26°10	25°57	13° 0	T 13
F 14	18 2 56	0 [♂] 49'55	13°53	17°47	0°12	20°12	11°58	6° 8	3°26	4° 1	9° 8	27°18	26° 7	26° 3	13° 7	F 14
S 15	18 6 53	1°47'04	26°49	17°39	29 ^{II} 35	20°55	12°10	6° 6	3°29	4° 1	9°10	27°13	26° 4	26°10	13°14	S 15
S 16	18 10 49	2°44'14	9 [♂] 23	17°26	28°58	21°37	12°21	6° 5	3°33	4° 1	9°11	27°10	26° 1	26°17	13°20	S 16
M17	18 14 46	3°41'24	21°40	17° 9	28°21	22°19	12°32	6° 4	3°36	4° 2	9°13	27° 7	25°58	26°23	13°27	M17
T 18	18 18 42	4°38'35	3 ^Υ 43	16°47	27°45	23° 1	12°44	6° 2	3°39	4° 2	9°14	27°D 7	25°55	26°30	13°34	T 18
W19	18 22 39	5°35'45	15°36	16°22	27°11	23°43	12°55	6° 1	3°43	4° 3	9°16	27° 7	25°51	26°37	13°41	W19
T 20	18 26 36	6°32'56	27°26	15°54	26°37	24°25	13° 6	6° 0	3°46	4° 3	9°17	27° 8	25°48	26°43	13°47	T 20
F 21	18 30 32	7°30'07	9 [♂] 16	15°22	26° 5	25° 7	13°17	5°59	3°49	4° 3	9°19	27°10	25°45	26°50	13°54	F 21
S 22	18 34 29	8°27'19	21°12	14°48	25°35	25°49	13°28	5°58	3°53	4° 4	9°21	27°R11	25°42	26°57	14° 1	S 22
S 23	18 38 25	9°24'31	3 ^{II} 18	14°12	25° 6	26°30	13°39	5°57	3°56	4° 4	9°22	27°11	25°39	27° 3	14° 8	S 23
M24	18 42 22	10°21'44	15°37	13°34	24°39	27°12	13°50	5°56	4° 0	4° 5	9°24	27° 9	25°35	27°10	14°14	M24
T 25	18 46 18	11°18'57	28°11	12°55	24°14	27°53	14° 0	5°56	4° 3	4° 6	9°25	27° 6	25°32	27°17	14°21	T 25
W26	18 50 15	12°16'10	11 [♂] 2	12°17	23°51	28°35	14°11	5°55	4° 7	4° 6	9°27	27° 0	25°29	27°23	14°28	W26
T 27	18 54 11	13°13'23	24°10	11°38	23°31	29°16	14°21	5°55	4°10	4° 7	9°29	26°53	25°26	27°30	14°35	T 27
F 28	18 58 8	14°10'37	7 ^Ω 34	11° 1	23°12	29°57	14°32	5°54	4°14	4° 7	9°30	26°45	25°23	27°37	14°42	F 28
S 29	19 2 5	15° 7'51	21°11	10°25	22°56	0 [♂] 38	14°42	5°54	4°17	4° 8	9°32	26°38	25°20	27°43	14°48	S 29
S 30	19 6 1	16 [♂] 5'05	4 [♂] 59	9 [♂] 52	22 ^{II} 43	1 [♂] 19	14 [♂] 52	5 [♂] 54	4 ^Ω 21	4 [♂] 9	9 ^Ω 34	26 [♂] 31	25 [♂] 16	27 ^Υ 50	14 [♂] 55	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	
S 1	23n 0	12n41	5 s 2	23n36	0n43	23n29	0n11	2n41	1s47	13n40	1 s 2	11s22	2n32	20n11	0n36	S 1
S 2	23 5	8 28	5 14	23 20	0 32	23 18	0 s 3	2 58	1 47	13 44	1 2	11 22	2 32	20 10	0 36	S 2
M 3	23 9	3 45	5 10	23 4	0 20	23 5	0 16	3 15	1 47	13 48	1 2	11 21	2 32	20 9	0 36	M 3
T 4	23 13	1s14	4 47	22 47	0 7	22 53	0 30	3 32	1 47	13 52	1 2	11 20	2 31	20 9	0 36	T 4
W 5	23 17	6 14	4 6	22 29	0 s 6	22 40	0 43	3 48	1 47	13 56	1 2	11 20	2 31	20 8	0 36	W 5
T 6	23 20	10 59	3 10	22 12	0 20	22 28	0 57	4 5	1 47	13 59	1 2	11 19	2 31	20 7	0 36	T 6
F 7	23 23	15 8	2 1	21 54	0 34	22 15	1 11	4 21	1 48	14 3	1 2	11 19	2 31	20 7	0 36	F 7
S 8	23 25	18 23	0 44	21 37	0 49	22 2	1 26	4 38	1 48	14 7	1 2	11 18	2 30	20 6	0 36	S 8
S 9	23 27	20 27	0n36	21 20	1 4	21 48	1 40	4 54	1 48	14 11	1 2	11 18	2 30	20 5	0 36	S 9
M10	23 28	21 9	1 53	21 2	1 19	21 35	1 54	5 11	1 48	14 14	1 2	11 17	2 30	20 4	0 36	M10
T 11	23 30	20 27	3 1	20 46	1 35	21 22	2 8	5 27	1 48	14 18	1 3	11 17	2 30	20 4	0 36	T 11
W12	23 30	18 30	3 58	20 29	1 51	21 8	2 22	5 43	1 48	14 21	1 3	11 16	2 29	20 3	0 36	W12
T 13	23 31	15 33	4 39	20 13	2 7	20 55	2 36	5 59	1 48	14 25	1 3	11 16	2 29	20 2	0 36	T 13
F 14	23 30	11 51	5 4	19 58	2 22	20 42	2 49	6 15	1 48	14 28	1 3	11 16	2 29	20 1	0 36	F 14
S 15	23 30	7 43	5 12	19 44	2 38	20 28	3 2	6 31	1 48	14 32	1 3	11 15	2 29	20 1	0 36	S 15
S 16	23 29	3 22	5 5	19 30	2 54	20 15	3 15	6 47	1 48	14 35	1 3	11 15	2 29	20 0	0 36	S 16
M17	23 27	1n 2	4 44	19 17	3 9	20 3	3 27	7 3	1 48	14 39	1 3	11 15	2 28	19 59	0 36	M17
T 18	23 26	5 19	4 11	19 5	3 23	19 50	3 39	7 19	1 48	14 42	1 3	11 15	2 28	19 58	0 36	T 18
W19	23 23	9 21	3 27	18 54	3 37	19 38	3 50	7 34	1 47	14 45	1 3	11 14	2 28	19 57	0 36	W19
T 20	23 21	13 0	2 35	18 45	3 50	19 27	4 1	7 50	1 47	14 49	1 3	11 14	2 27	19 57	0 36	T 20
F 21	23 18	16 8	1 36	18 36	4 3	19 16	4 11	8 5	1 47	14 52	1 3	11 14	2 27	19 56	0 36	F 21
S 22	23 14	18 38	0 33	18 29	4 14	19 5	4 21	8 20	1 47	14 55	1 3	11 14	2 27	19 55	0 36	S 22
S 23	23 10	20 20	0s33	18 23	4 24	18 55	4 30	8 36	1 47	14 58	1 4	11 14	2 27	19 54	0 36	S 23
M24	23 6	21 6	1 38	18 18	4 32	18 46	4 39	8 51	1 47	15 1	1 4	11 14	2 26	19 53	0 36	M24
T 25	23 1	20 50	2 40	18 15	4 39	18 37	4 46	9 6	1 47	15 5	1 4	11 14	2 26	19 52	0 36	T 25
W26	22 56	19 29	3 35	18 13	4 45	18 28	4 54	9 20	1 47	15 8	1 4	11 14	2 26	19 52	0 36	W26
T 27	22 51	17 5	4 19	18 12	4 49	18 21	5 0	9 35	1 46	15 11	1 4	11 14	2 26	19 51	0 36	T 27
F 28	22 45	13 45	4 51	18 13	4 51	18 14	5 6	9 50	1 46	15 14	1 4	11 14	2 25	19 50	0 36	F 28
S 29	22 39	9 39	5 6	18 15	4 51	18 8	5 12	10 4	1 46	15 16	1 4	11 15	2 25	19 49	0 36	S 29
S 30	22n32	4n59	5 s 4	18n19	4s50	18n 2	5s17	10n19	1s46	15n19	1 s 4	11s15	2n25	19n48	0n36	S 30

Julian Day Number = 2252282.5, Delta T = 06m21s

Ecliptic obliquity = 23°30'31", Nutation = 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'43", Lahiri = 16°14'44" Julian Calendar 1 June 1454 == Greg. Calendar 10 June 1454

ASTRODIENST EPHEMERIS for the year 1454

geocentric

JULY 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 9 58	17°58'21"	18°56'56"	9°R22	22°R32	18°59	15°8 2	5°D54	4°Q24	4°A10	9°Q36	26°R26	25°M13	27°Y57	15°Q 2	M 1
T 2	19 13 54	17°59'34"	2°A59	8°Q56	22°I23	2°40	15°12	5°M54	4°28	4°10	9°37	26°M23	25°10	28° 3	15° 9	T 2
W 3	19 17 51	18°56'48"	17° 6	8°33	22°16	3°20	15°22	5°54	4°32	4°11	9°39	26°D22	25° 7	28°10	15°16	W 3
T 4	19 21 47	19°54'03"	1°M16	8°16	22°12	4° 1	15°32	5°54	4°35	4°12	9°41	26°23	25° 4	28°17	15°22	T 4
F 5	19 25 44	20°51'18"	15°27	8° 3	22°D10	4°41	15°41	5°54	4°39	4°13	9°42	26°23	25° 1	28°23	15°29	F 5
S 6	19 29 40	21°48'34"	29°38	7°55	22°11	5°21	15°51	5°55	4°42	4°14	9°44	26°R24	24°57	28°30	15°36	S 6
S 7	19 33 37	22°45'50"	13°A46	7°D53	22°13	6° 1	16° 0	5°55	4°46	4°15	9°46	26°22	24°54	28°37	15°43	S 7
M 8	19 37 34	23°43'06"	27°49	7°56	22°18	6°41	16° 9	5°56	4°50	4°16	9°48	26°19	24°51	28°43	15°50	M 8
T 9	19 41 30	24°40'23"	11°B43	8° 6	22°26	7°21	16°18	5°57	4°53	4°17	9°50	26°13	24°48	28°50	15°56	T 9
W10	19 45 27	25°37'40"	25°25	8°21	22°35	8° 0	16°27	5°57	4°57	4°18	9°51	26° 5	24°45	28°57	16° 3	W10
T 11	19 49 23	26°34'59"	8°A52	8°43	22°46	8°39	16°36	5°58	5° 1	4°19	9°53	25°55	24°41	29° 3	16°10	T 11
F 12	19 53 20	27°32'18"	22° 0	9°10	23° 0	9°19	16°45	5°59	5° 4	4°20	9°55	25°45	24°38	29°10	16°17	F 12
S 13	19 57 16	28°29'38"	4°K50	9°44	23°16	9°58	16°54	6° 0	5° 8	4°21	9°57	25°35	24°35	29°17	16°23	S 13
S 14	20 1 13	29°26'58"	17°22	10°23	23°33	10°37	17° 2	6° 1	5°12	4°22	9°59	25°27	24°32	29°23	16°30	S 14
M15	20 5 9	0°Q24'20"	29°37	11° 9	23°52	11°16	17°10	6° 3	5°15	4°24	10° 0	25°20	24°29	29°30	16°37	M15
T 16	20 9 6	1°21'43"	11°Y39	12° 1	24°13	11°54	17°19	6° 4	5°19	4°25	10° 2	25°16	24°26	29°37	16°44	T 16
W17	20 13 3	2°19'08"	23°32	12°58	24°36	12°33	17°27	6° 6	5°23	4°26	10° 4	25°14	24°22	29°43	16°50	W17
T 18	20 16 59	3°16'33"	5°B21	14° 2	25° 1	13°11	17°35	6° 7	5°27	4°27	10° 6	25°D14	24°19	29°50	16°57	T 18
F 19	20 20 56	4°14'00"	17°12	15°11	25°27	13°50	17°42	6° 9	5°30	4°29	10° 8	25°14	24°16	29°57	17° 4	F 19
S 20	20 24 52	5°11'28"	29° 9	16°25	25°55	14°28	17°50	6°11	5°34	4°30	10°10	25°R14	24°13	0°B 3	17°10	S 20
S 21	20 28 49	6° 8'57"	11°I19	17°45	26°24	15° 6	17°57	6°12	5°38	4°31	10°11	25°13	24°10	0°10	17°17	S 21
M22	20 32 45	7° 6'28"	23°44	19° 9	26°55	15°43	18° 5	6°14	5°41	4°33	10°13	25°10	24° 7	0°17	17°23	M22
T 23	20 36 42	8° 4'00"	6°Q29	20°39	27°27	16°21	18°12	6°16	5°45	4°34	10°15	25° 4	24° 3	0°23	17°30	T 23
W24	20 40 38	9° 1'33"	19°36	22°13	28° 0	16°58	18°19	6°18	5°49	4°35	10°17	24°56	24° 0	0°30	17°37	W24
T 25	20 44 35	9°59'07"	3°Q 4	23°51	28°35	17°35	18°26	6°21	5°53	4°37	10°19	24°46	23°57	0°37	17°43	T 25
F 26	20 48 32	10°56'43"	16°52	25°34	29°11	18°12	18°33	6°23	5°56	4°38	10°21	24°34	23°54	0°43	17°50	F 26
S 27	20 52 28	11°54'20"	0°M56	27°20	29°48	18°49	18°39	6°25	6° 0	4°40	10°22	24°23	23°51	0°50	17°56	S 27
S 28	20 56 25	12°51'57"	15°10	29° 9	0°Q27	19°26	18°46	6°28	6° 4	4°41	10°24	24°13	23°47	0°57	18° 3	S 28
M29	21 0 21	13°49'36"	29°29	1°Q 0	1° 6	20° 2	18°52	6°30	6° 7	4°43	10°26	24° 5	23°44	1° 3	18° 9	M29
T 30	21 4 18	14°47'16"	13°A47	2°55	1°47	20°39	18°58	6°33	6°11	4°44	10°28	24° 0	23°41	1°10	18°15	T 30
W31	21 8 14	15°Q44'57"	28°A 6	4°Q51	2°Q29	21°B15	19°B 4	6°M36	6°Q15	4°A46	10°Q30	23°M57	23°M38	1°B16	18°Q22	W31

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
M 1	22n25	0n 2	4s44	18n24	4s48	17n57	5s21	10n33	1s46	15n22	1s 4	11s15	2n25	19n47	0n36	0s13
T 2	22 18	4s58	4 7	18 30	4 43	17 53	5 25	10 47	1 45	15 25	1 4	11 15	2 24	19 47	0 36	0 13
W 3	22 10	9 44	3 15	18 37	4 38	17 49	5 28	11 1	1 45	15 28	1 5	11 16	2 24	19 46	0 36	0 14
T 4	22 2	14 0	2 11	18 45	4 30	17 46	5 31	11 15	1 45	15 30	1 5	11 16	2 24	19 45	0 36	0 14
F 5	21 53	17 27	0 58	18 54	4 22	17 44	5 33	11 29	1 45	15 33	1 5	11 16	2 24	19 44	0 36	0 15
S 6	21 44	19 51	0n17	19 4	4 12	17 42	5 35	11 42	1 44	15 36	1 5	11 17	2 23	19 43	0 36	0 15
S 7	21 35	21 0	1 32	19 15	4 1	17 41	5 36	11 56	1 44	15 38	1 5	11 17	2 23	19 42	0 36	0 15
M 8	21 25	20 49	2 40	19 27	3 50	17 40	5 37	12 9	1 44	15 41	1 5	11 17	2 23	19 41	0 36	0 16
T 9	21 15	19 22	3 38	19 39	3 37	17 40	5 38	12 22	1 43	15 43	1 5	11 18	2 22	19 40	0 36	0 16
W10	21 5	16 49	4 22	19 51	3 24	17 41	5 38	12 35	1 43	15 46	1 5	11 18	2 22	19 40	0 36	0 17
T 11	20 54	13 25	4 51	20 4	3 10	17 41	5 38	12 48	1 43	15 48	1 5	11 19	2 22	19 39	0 36	0 17
F 12	20 43	9 26	5 3	20 16	2 56	17 43	5 37	13 1	1 42	15 51	1 6	11 20	2 22	19 38	0 36	0 18
S 13	20 31	5 6	5 0	20 29	2 41	17 44	5 36	13 14	1 42	15 53	1 6	11 20	2 21	19 37	0 36	0 18
S 14	20 20	0 40	4 42	20 41	2 26	17 46	5 35	13 27	1 42	15 55	1 6	11 21	2 21	19 36	0 36	0 19
M15	20 7	3n42	4 12	20 52	2 10	17 49	5 33	13 39	1 41	15 57	1 6	11 22	2 21	19 35	0 36	0 19
T 16	19 55	7 51	3 31	21 3	1 55	17 52	5 32	13 51	1 41	16 0	1 6	11 22	2 21	19 34	0 36	0 20
W17	19 42	11 39	2 41	21 13	1 39	17 55	5 30	14 3	1 40	16 2	1 6	11 23	2 20	19 33	0 36	0 20
T 18	19 29	14 59	1 44	21 22	1 24	17 58	5 27	14 15	1 40	16 4	1 6	11 24	2 20	19 32	0 36	0 21
F 19	19 15	17 42	0 43	21 30	1 9	18 1	5 25	14 27	1 39	16 6	1 6	11 25	2 20	19 31	0 36	0 21
S 20	19 2	19 41	0s21	21 36	0 54	18 5	5 22	14 39	1 39	16 8	1 7	11 25	2 20	19 31	0 36	0 22
S 21	18 47	20 48	1 24	21 41	0 39	18 9	5 19	14 51	1 38	16 10	1 7	11 26	2 19	19 30	0 36	0 22
M22	18 33	20 56	2 25	21 43	0 25	18 12	5 16	15 2	1 38	16 12	1 7	11 27	2 19	19 29	0 36	0 23
T 23	18 18	20 1	3 21	21 44	0 11	18 16	5 13	15 13	1 37	16 14	1 7	11 28	2 19	19 28	0 36	0 24
W24	18 3	18 0	4 7	21 42	0n 2	18 21	5 9	15 24	1 37	16 15	1 7	11 29	2 18	19 27	0 36	0 24
T 25	17 48	14 59	4 40	21 38	0 14	18 25	5 5	15 35	1 36	16 17	1 7	11 30	2 18	19 26	0 36	0 25
F 26	17 32	11 5	4 59	21 31	0 26	18 29	5 2	15 46	1 36	16 19	1 7	11 31	2 18	19 25	0 36	0 25
S 27	17 16	6 31	4 59	21 22	0 38	18 33	4 58	15 57	1 35	16 21	1 8	11 32	2 18	19 24	0 36	0 26
S 28	17 0	1 32	4 42	21 10	0 48	18 37	4 54	16 7	1 35	16 22	1 8	11 33	2 17	19 23	0 36	0 27
M29	16 43	3s33	4 6	20 56	0 58	18 41	4 49	16 18	1 34	16 24	1 8	11 34	2 17	19 22	0 36	0 27
T 30	16 27	8 28	3 15	20 38	1 6	18 45	4 45	16 28	1 33	16 25	1 8	11 35	2 17	19 21	0 36	0 28
W31	16n10	12s53	2s12	20n18	1n14	18n49	4s41	16n38	1s33	16n27	1s 8	11s36	2n17	19n21	0n36	0s29

Julian Day Number = 2252312.5, Delta T = 06m21s

Ecliptic obliquity = 23°30'31", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'47", Lahiri = 16°14'48" Julian Calendar 1 July 1454 == Greg. Calendar 10 July 1454

ASTRODIENST EPHEMERIS for the year 1454
geocentric

AUGUST 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 12 11	16 ⁰² 42'39	12 ¹¹ 16	6 ⁰² 49	3 ⁵⁵ 11	21 ⁰⁸ 50	19 ⁰⁸ 10	6 ¹¹ 39	6 ⁰² 18	4 ⁴⁸ 48	10 ⁰² 32	23 ⁰⁵ R56	23 ¹¹ 35	1 ⁰⁸ 23	18 ⁰² 28	T 1
F 2	21 16 7	17 ⁴⁰ 23	26 ²⁰	8 ⁴⁸	3 ⁵⁵	22 ²⁶	19 ¹⁶	6 ⁴²	6 ²²	4 ⁴⁹	10 ³³	23 ¹¹ 56	23 ³²	1 ³⁰	18 ³⁴	F 2
S 3	21 20 4	18 ³⁸ 07	10 ¹⁷ 16	10 ⁴⁸	4 ³⁹	23 ²	19 ²¹	6 ⁴⁵	6 ²⁶	4 ⁵¹	10 ³⁵	23 ⁵⁶	23 ²⁸	1 ³⁶	18 ⁴¹	S 3
S 4	21 24 1	19 ³⁵ 52	24 ³	12 ⁴⁸	5 ²⁵	23 ³⁷	19 ²⁶	6 ⁴⁸	6 ²⁹	4 ⁵³	10 ³⁷	23 ⁵³	23 ²⁵	1 ⁴³	18 ⁴⁷	S 4
M 5	21 27 57	20 ³³ 39	7 ³⁴	14 ⁴⁹	6 ¹¹	24 ¹²	19 ³²	6 ⁵¹	6 ³³	4 ⁵⁴	10 ³⁹	23 ⁴⁸	23 ²²	1 ⁵⁰	18 ⁵³	M 5
T 6	21 31 54	21 ³¹ 27	21 ¹²	16 ⁴⁹	6 ⁵⁸	24 ⁴⁶	19 ³⁶	6 ⁵⁴	6 ³⁷	4 ⁵⁶	10 ⁴¹	23 ⁴¹	23 ¹⁹	1 ⁵⁶	18 ⁵⁹	T 6
W 7	21 35 50	22 ²⁹ 16	4 ³¹	18 ⁵⁰	7 ⁴⁶	25 ²¹	19 ⁴¹	6 ⁵⁸	6 ⁴⁰	4 ⁵⁸	10 ⁴³	23 ³⁰	23 ¹⁶	2 ³	19 ⁵	W 7
T 8	21 39 47	23 ²⁷ 07	17 ³⁷	20 ⁵⁰	8 ³⁴	25 ⁵⁵	19 ⁴⁶	7 ¹	6 ⁴⁴	4 ⁵⁹	10 ⁴⁴	23 ¹⁸	23 ¹³	2 ¹⁰	19 ¹²	T 8
F 9	21 43 43	24 ²⁴ 59	0 ³⁰	22 ⁴⁹	9 ²⁴	26 ²⁹	19 ⁵⁰	7 ⁵	6 ⁴⁷	5 ¹	10 ⁴⁶	23 ⁵	23 ⁹	2 ¹⁶	19 ¹⁸	F 9
S 10	21 47 40	25 ²² 52	13 ⁷	24 ⁴⁸	10 ¹⁴	27 ³	19 ⁵⁵	7 ⁸	6 ⁵¹	5 ³	10 ⁴⁸	22 ⁵²	23 ⁶	2 ²³	19 ²⁴	S 10
S 11	21 51 36	26 ²⁰ 48	25 ³⁰	26 ⁴⁵	11 ⁵	27 ³⁷	19 ⁵⁹	7 ¹²	6 ⁵⁵	5 ⁵	10 ⁵⁰	22 ⁴¹	23 ³	2 ³⁰	19 ³⁰	S 11
M12	21 55 33	27 ¹⁸ 45	7 ⁴⁰	28 ⁴²	11 ⁵⁶	28 ¹⁰	20 ³	7 ¹⁶	6 ⁵⁸	5 ⁷	10 ⁵²	22 ³²	23 ⁰	2 ³⁶	19 ³⁶	M12
T 13	21 59 30	28 ¹⁶ 43	19 ³⁸	0 ³⁸	12 ⁴⁹	28 ⁴⁴	20 ⁶	7 ²⁰	7 ²	5 ⁹	10 ⁵³	22 ²⁶	22 ⁵⁷	2 ⁴³	19 ⁴²	T 13
W14	22 3 26	29 ¹⁴ 44	1 ⁰⁹	2 ³²	13 ⁴²	29 ¹⁶	20 ¹⁰	7 ²³	7 ⁵	5 ¹⁰	10 ⁵⁵	22 ²³	22 ⁵³	2 ⁵⁰	19 ⁴⁷	W14
T 15	22 7 23	0 ¹² 47	13 ¹⁷	4 ²⁵	14 ³⁵	29 ⁴⁹	20 ¹³	7 ²⁷	7 ⁹	5 ¹²	10 ⁵⁷	22 ²¹	22 ⁵⁰	2 ⁵⁶	19 ⁵³	T 15
F 16	22 11 19	1 ¹⁰ 51	25 ⁷	6 ¹⁸	15 ²⁹	0 ¹¹ 21	20 ¹⁶	7 ³²	7 ¹²	5 ¹⁴	10 ⁵⁹	22 ²¹	22 ⁴⁷	3 ³	19 ⁵⁹	F 16
S 17	22 15 16	2 ⁸ 58	7 ¹¹ 3	8 ⁹	16 ²⁴	0 ⁵⁴	20 ¹⁹	7 ³⁶	7 ¹⁶	5 ¹⁶	11 ⁰	22 ²¹	22 ⁴⁴	3 ¹⁰	20 ⁵	S 17
S 18	22 19 12	3 ⁷ 06	19 ¹³	9 ⁵⁸	17 ¹⁹	1 ²⁵	20 ²²	7 ⁴⁰	7 ¹⁹	5 ¹⁸	11 ²	22 ²⁰	22 ⁴¹	3 ¹⁶	20 ¹⁰	S 18
M19	22 23 9	4 ⁵ 17	1 ⁰⁴ 40	11 ⁴⁷	18 ¹⁵	1 ⁵⁷	20 ²⁵	7 ⁴⁴	7 ²²	5 ²⁰	11 ⁴	22 ¹⁷	22 ³⁸	3 ²³	20 ¹⁶	M19
T 20	22 27 5	5 ³ 29	14 ²⁹	13 ³⁴	19 ¹¹	2 ²⁸	20 ²⁷	7 ⁴⁹	7 ²⁶	5 ²²	11 ⁶	22 ¹²	22 ³⁴	3 ³⁰	20 ²²	T 20
W21	22 31 2	6 ¹ 44	27 ⁴⁴	15 ²¹	20 ⁸	2 ⁵⁹	20 ²⁹	7 ⁵³	7 ²⁹	5 ²⁴	11 ⁷	22 ⁵	22 ³¹	3 ³⁶	20 ²⁷	W21
T 22	22 34 59	7 ⁰ 00	11 ⁰² 4	17 ⁶	21 ⁵	3 ³⁰	20 ³¹	7 ⁵⁸	7 ³³	5 ²⁶	11 ⁹	21 ⁵⁵	22 ²⁸	3 ⁴³	20 ³³	T 22
F 23	22 38 55	7 ⁵⁸ 19	25 ²⁹	18 ⁴⁹	22 ³	4 ⁰	20 ³³	8 ²	7 ³⁶	5 ²⁸	11 ¹¹	21 ⁴⁴	22 ²⁵	3 ⁵⁰	20 ³⁸	F 23
S 24	22 42 52	8 ⁵⁶ 39	9 ¹¹ 54	20 ³²	23 ¹	4 ³⁰	20 ³⁵	8 ⁷	7 ³⁹	5 ³⁰	11 ¹²	21 ³³	22 ²²	3 ⁵⁶	20 ⁴³	S 24
S 25	22 46 48	9 ⁵⁵ 01	24 ³³	22 ¹⁴	23 ⁵⁹	5 ⁰	20 ³⁶	8 ¹²	7 ⁴²	5 ³²	11 ¹⁴	21 ²³	22 ¹⁹	4 ³	20 ⁴⁹	S 25
M26	22 50 45	10 ⁵³ 25	9 ¹⁸	23 ⁵⁴	24 ⁵⁸	5 ²⁹	20 ³⁸	8 ¹⁶	7 ⁴⁶	5 ³⁴	11 ¹⁶	21 ¹⁵	22 ¹⁵	4 ⁹	20 ⁵⁴	M26
T 27	22 54 41	11 ⁵¹ 50	24 ¹	25 ³³	25 ⁵⁸	5 ⁵⁸	20 ³⁹	8 ²¹	7 ⁴⁹	5 ³⁶	11 ¹⁷	21 ¹⁰	22 ¹²	4 ¹⁶	20 ⁵⁹	T 27
W28	22 58 38	12 ⁵⁰ 18	8 ¹¹ 36	27 ¹¹	26 ⁵⁸	6 ²⁷	20 ³⁹	8 ²⁶	7 ⁵²	5 ³⁸	11 ¹⁹	21 ⁷	22 ⁹	4 ²³	21 ⁴	W28
T 29	23 2 34	13 ⁴⁸ 47	22 ⁵⁸	28 ⁴⁹	27 ⁵⁸	6 ⁵⁵	20 ⁴⁰	8 ³¹	7 ⁵⁵	5 ⁴⁰	11 ²⁰	21 ⁰ D 7	22 ⁶	4 ²⁹	21 ⁹	T 29
F 30	23 6 31	14 ⁴⁷ 17	7 ¹⁷ 6	0 ²⁵	28 ⁵⁸	7 ²³	20 ⁴⁰	8 ³⁶	7 ⁵⁹	5 ⁴³	11 ²²	21 ⁷	22 ³	4 ³⁶	21 ¹⁵	F 30
S 31	23 10 27	15 ¹¹ 45'50	20 ¹⁷ 59	2 ⁰	29 ⁰⁵ 59	7 ¹¹ 51	20 ⁴¹	8 ¹¹ 42	8 ⁰ 2	5 ⁴⁵	11 ⁰² 4	21 ⁰ R 7	21 ¹¹ 59	4 ⁴³	21 ⁰⁵ 19	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	15n52	16s32	1 s 1	19n56	1n21	18n52	4s36	16n48	1 s32	16n28	1 s 8	11s38	2n16	19n20	0n36	0s29	1n33	25n13	7n53	18s49	18s43	13n49	16n 1	6s16			
F 2	15 35	19 11	0n13	19 31	1 27	18 56	4 31	16 58	1 31	16 30	1 8	11 39	2 16	19 19	0 36	0 30	1 33	25 12	7 53	18 49	18 43	13 50	16 0	6 16			
S 3	15 17	20 39	1 25	19 3	1 32	18 59	4 27	17 7	1 31	16 31	1 9	11 40	2 16	19 18	0 36	0 31	1 33	25 12	7 53	18 49	18 42	13 52	15 59	6 17			
S 4	14 59	20 51	2 32	18 34	1 37	19 2	4 22	17 17	1 30	16 32	1 9	11 41	2 16	19 17	0 36	0 31	1 33	25 12	7 53	18 48	18 41	13 54	15 58	6 17			
M 5	14 41	19 48	3 29	18 2	1 40	19 5	4 17	17 26	1 29	16 34	1 9	11 42	2 15	19 16	0 36	0 32	1 33	25 11	7 53	18 47	18 40	13 55	15 57	6 17			
T 6	14 22	17 39	4 14	17 28	1 43	19 8	4 12	17 35	1 28	16 35	1 9	11 44	2 15	19 15	0 36	0 33	1 33	25 11	7 53	18 45	18 39	13 57	15 55	6 18			
W 7	14 3	14 35	4 44	16 53	1 45	19 10	4 7	17 44	1 28	16 36	1 9	11 45	2 15	19 14	0 36	0 33	1 33	25 10	7 53	18 42	18 39	13 58	15 54	6 18			
T 8	13 44	10 51	4 59	16 16	1 46	19 13	4 2	17 53	1 27	16 37	1 9	11 46	2 15	19 13	0 36	0 34	1 33	25 10	7 53	18 39	18 38	14 0	15 53	6 18			
F 9	13 25	6 41	4 58	15 37	1 46	19 15	3 56	18 2	1 26	16 38	1 9	11 48	2 14	19 12	0 36	0 35	1 33	25 9	7 53	18 36	18 37	14 1	15 52	6 19			
S 10	13 6	2 18	4 42	14 58	1 46	19 16	3 51	18 10	1 25	16 39	1 10	11 49	2 14	19 12	0 36	0 36	1 33	25 9	7 54	18 33	18 36	14 3	15 51	6 19			
S 11	12 46	2n 5	4 13	14 17	1 45	19 18	3 46	18 19	1 25	16 40	1 10	11 51	2 14	19 11	0 36	0 36	1 33	25 9	7 54	18 30	18 35	14 4	15 50	6 19			
M12	12 26	6 19	3 33	13 35	1 44	19 18	3 41	18 27	1 24	16 41	1 10	11 52	2 14	19 10	0 36	0 37	1 33	25 8	7 54	18 28	18 35	14 6	15 48	6 20			
T 13	12 6	10 14	2 44	12 52	1 42	19 19	3 35	18 35	1 23	16 42	1 10	11 54	2 14	19 9	0 36	0 38	1 33	25 8	7 54	18 26	18 34	14 7	15 47	6 20			
W14	11 46	13 43	1 48	12 9	1 39	19 19	3 30	18 43	1 22	16 43	1 10	11 55	2 13	19 8	0 36	0 39	1 33	25 8	7 54	18 25	18 33	14 9	15 46	6 21			
T 15	11 26	16 38	0 48	11 24	1 36	19 19	3 24	18 51	1 21	16 43	1 10	11 57	2 13	19 7	0 36	0 39	1 33	25 7	7 54	18 25	18 32	14 10	15 45	6 21			
F 16	11 5	18 52	0s15	10 40	1 33	19 19	3 19	18 59	1 20	16 44	1 10	11 58	2 13	19 6	0 36	0 40	1 33	25 7	7 54	18 25	18 31	14 12	15 44	6 21			
S 17	10 44	20 17	1 17	9 55	1 29	19 18	3 13	19 6	1 19	16 45	1 11	12 0	2 13	19 5	0 36	0 41	1 33	25 6	7 55	18 25	18 30	14 14	15 42	6 22			
S 18	10 23	20 47	2 17	9 9	1 24	19 17	3 8	19 14	1 18	16 45	1 11	12 1	2 12	19 5	0 36	0 42	1 33	25 6	7 55	18 24	18 30	14 15	15 41	6 22			
M19	10 2	20 17	3 13	8 23	1 20	19 15	3 2	19 21	1 17	16 46	1 11	12 3	2 12	19 4	0 36	0 43	1 32	25 6	7 55	18 24	18 29	14 17	15 40	6 23			
T 20	9 41	18 45	4 0	7 37	1 15	19 13	2 57	19 28	1 16	16 46	1 11	12 4	2 12	19 3	0 36	0 43	1 32	25 5	7 55	18 22	18 28	14 18	15 39	6 23			
W21	9 20	16 10	4 36	6 51	1 9	19 10	2 51	19 35	1 15	16 47	1 11	12 6	2 12	19 2	0 36	0 44	1 32	25 5	7 55	18 20	18 27	14 20	15 37	6 24			
T 22	8 58	12 39	4 57	6 5	1 4	19 7	2 46	19 42	1 14	16 47	1 11	12 8	2 12	19 1	0 36	0 45	1 32	25 5	7 55	18 18	18 26	14 21	15 36	6 24			
F 23	8 36	8 20	5 1	5 19	0 58	19 4	2 40	19 48	1 13	16 47	1 12	12 9	2 11	19 0	0 36	0 46	1 32	25 4	7 55	18 15	18 26	14 23	15 35	6 24			
S 24	8 14	3 27	4 47	4 33	0 52	19 0	2 35	19 55	1 12	16 48	1 12	12 11	2 11	18 59	0 36	0 47	1 32	25 4	7 56	18 12	18 25	14 24	15 34	6 25			
S 25	7 52	1s42	4 13	3 47	0 45	18 56	2 29	20 2	1 11	16 48	1 12	12 13	2 11	18 59	0 36	0 48	1 32	25 4	7 56	18 10	18 24	14 25	15 32	6 25			
M26	7 30	6 48	3 23	3 1	0 39	18 51	2 23	20 8	1 10	16 48	1 12	12 15	2 11	18 58	0 36	0 48	1 32	25 4	7 56	18 7	18 23	14 27	15 31	6 26			
T 27	7 8	11 30	2 19	2 16	0 32	18 45	2 18	20 14	1 9	16 48	1 12	12 16	2 11	18 57	0 36	0 49	1 32	25 3	7 56	18 6	18 22	14 28	15 30	6 26			
W28	6 46	15 27	1 6	1 30	0 25	18 40	2 12	20 20	1 8	16 48	1 12	12 18	2 10	18 56	0 36	0 50	1 32	25 3	7 56	18 5	18 22	14 30	15 29	6 27			
T 29	6 23	18 25	0n10	0 45	0 18	18 33	2 7	20 26	1 7	16 48	1 12	12 20	2 10	18 55	0 36	0 51	1 32	25 3	7 57	18 5	18 21	14 31	15 28	6 27			
F 30	6 0	20 11	1 24	0 0	0 11	18 37	2 1	20 32	1 6	16 48	1 13	12 22	2 10	18 55	0 36	0 52	1 32	25 2	7 57	18 5	18 20	14 33	15 26	6 28			
S 31	5n38	20s40	2n32	0s44	0n 4	18n19	1s56	20n37	1s 4	16n48	1s13	12s23	2n10	18n54	0n36	0s53	1n32	25n 2	7n57	18s 5	18s19	14n34	15n25	6s28			

ASTRODIENST EPHEMERIS for the year 1454

geocentric

SEPTEMBER 1454 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 14 24	16 ^h 44'24"	4 ^h 36'	3 ^h 34'	1 ^h 1	8 ^h 18'	20°R41	8 ^h 47'	8 ^h 5	5 ^h 47'	11 ^h 25'	21°R 6	21 ^h 56'	4 ^h 49'	21 ^h 24'	S 1
M 2	23 18 21	17°42'59"	17°59'	5° 7'	2° 2'	8°45'	20 ^h 341	8°52'	8° 8'	5°49'	11°27'	21 ^h 2	21°53'	4°56'	21°29'	M 2
T 3	23 22 17	18°41'36"	1 ^h 36'	6°38'	3° 4'	9°12'	20°40'	8°57'	8°11'	5°51'	11°28'	20°56'	21°50'	5° 3'	21°34'	T 3
W 4	23 26 14	19°40'15"	14° 7'	8° 9'	4° 7'	9°38'	20°40'	9° 3'	8°14'	5°53'	11°30'	20°48'	21°47'	5° 9'	21°39'	W 4
T 5	23 30 10	20°38'56"	26°52'	9°39'	5° 9'	10° 3'	20°39'	9° 8'	8°17'	5°55'	11°31'	20°37'	21°44'	5°16'	21°43'	T 5
F 6	23 34 7	21°37'39"	9 ^h 26'	11° 8'	6°12'	10°29'	20°38'	9°14'	8°20'	5°58'	11°33'	20°27'	21°40'	5°23'	21°48'	F 6
S 7	23 38 3	22°36'23"	21°48'	12°36'	7°16'	10°54'	20°37'	9°19'	8°23'	6° 0'	11°34'	20°16'	21°37'	5°29'	21°52'	S 7
S 8	23 42 0	23°35'10"	4 ^h 0'	14° 2'	8°19'	11°18'	20°35'	9°25'	8°26'	6° 2'	11°36'	20° 7'	21°34'	5°36'	21°57'	S 8
M 9	23 45 56	24°33'58"	16° 2'	15°28'	9°23'	11°42'	20°34'	9°31'	8°29'	6° 4'	11°37'	19°59'	21°31'	5°43'	22° 1'	M 9
T 10	23 49 53	25°32'49"	27°55'	16°53'	10°28'	12° 6'	20°32'	9°36'	8°31'	6° 6'	11°39'	19°54'	21°28'	5°49'	22° 6'	T 10
W11	23 53 50	26°31'42"	9 ^h 44'	18°16'	11°32'	12°29'	20°30'	9°42'	8°34'	6° 9'	11°40'	19°52'	21°24'	5°56'	22°10'	W11
T 12	23 57 46	27°30'37"	21°30'	19°39'	12°37'	12°52'	20°28'	9°48'	8°37'	6°11'	11°41'	19°D51	21°21'	6° 3'	22°14'	T 12
F 13	0 1 43	28°29'35"	3 ^h 19'	21° 0'	13°42'	13°14'	20°26'	9°54'	8°40'	6°13'	11°43'	19°52'	21°18'	6° 9'	22°18'	F 13
S 14	0 5 39	29°28'35"	15°14'	22°20'	14°47'	13°36'	20°23'	10° 0'	8°42'	6°15'	11°44'	19°53'	21°15'	6°16'	22°22'	S 14
S 15	0 9 36	0 ^h 27'37"	27°21'	23°39'	15°53'	13°57'	20°20'	10° 6'	8°45'	6°17'	11°45'	19°R54	21°12'	6°22'	22°26'	S 15
M16	0 13 32	1°26'41"	9 ^h 46'	24°56'	16°59'	14°18'	20°17'	10°12'	8°47'	6°20'	11°47'	19°54'	21° 9'	6°29'	22°30'	M16
T 17	0 17 29	2°25'48"	22°33'	26°12'	18° 5'	14°38'	20°14'	10°18'	8°50'	6°22'	11°48'	19°52'	21° 5'	6°36'	22°34'	T 17
W18	0 21 25	3°24'57"	5 ^h 46'	27°27'	19°11'	14°58'	20°11'	10°24'	8°53'	6°24'	11°49'	19°48'	21° 2'	6°42'	22°37'	W18
T 19	0 25 22	4°24'09"	19°27'	28°40'	20°17'	15°17'	20° 7'	10°30'	8°55'	6°26'	11°51'	19°42'	20°59'	6°49'	22°41'	T 19
F 20	0 29 19	5°23'23"	3 ^h 36'	29°51'	21°24'	15°36'	20° 4'	10°36'	8°58'	6°29'	11°52'	19°35'	20°56'	6°56'	22°45'	F 20
S 21	0 33 15	6°22'39"	18°10'	1 ^h 1	22°31'	15°54'	20° 0'	10°43'	9° 0'	6°31'	11°53'	19°28'	20°53'	7° 2'	22°48'	S 21
S 22	0 37 12	7°21'57"	3 ^h 3	2° 9'	23°38'	16°11'	19°56'	10°49'	9° 2'	6°33'	11°54'	19°22'	20°50'	7° 9'	22°52'	S 22
M23	0 41 8	8°21'17"	18° 6'	3°14'	24°46'	16°28'	19°51'	10°55'	9° 5'	6°35'	11°55'	19°17'	20°46'	7°16'	22°55'	M23
T 24	0 45 5	9°20'39"	3 ^h 11'	4°18'	25°53'	16°45'	19°47'	11° 2'	9° 7'	6°38'	11°56'	19°14'	20°43'	7°22'	22°58'	T 24
W25	0 49 1	10°20'03"	18° 8'	5°19'	27° 1'	17° 0'	19°42'	11° 8'	9° 9'	6°40'	11°58'	19°D13	20°40'	7°29'	23° 1'	W25
T 26	0 52 58	11°19'30"	2 ^h 50'	6°17'	28° 9'	17°15'	19°37'	11°15'	9°11'	6°42'	11°59'	19°14'	20°37'	7°36'	23° 4'	T 26
F 27	0 56 54	12°18'58"	17°12'	7°13'	29°17'	17°30'	19°32'	11°21'	9°13'	6°44'	12° 0'	19°15'	20°34'	7°42'	23° 7'	F 27
S 28	1 0 51	13°18'27"	1 ^h 13'	8° 5'	0 ^h 26'	17°44'	19°27'	11°28'	9°16'	6°46'	12° 1'	19°16'	20°30'	7°49'	23°10'	S 28
S 29	1 4 48	14°17'59"	14°51'	8°54'	1°34'	17°57'	19°22'	11°34'	9°18'	6°49'	12° 2'	19°R17	20°27'	7°56'	23°13'	S 29
M30	1 8 44	15°17'32"	28 ^h 3	9 ^h 39'	2 ^h 43'	18 ^h 9	19°B16	11 ^h 41	9°20'	6°51'	12° 3'	19 ^h 16	20 ^h 24	8° 2'	23°516	M30

Day	☉	☽		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	5n15	19s56	3n30	1s28	0s 4	18n12	1s50	20n43	1s 3	16n48	1s13	12s25	2n10	18n53	0n36	0s53	1n32	25n 2	7n57	18s 5	18s18	14n36	15n24	6s29			
M 2	4 52	18 4	4 16	2 12	0 11	18 4	1 45	20 48	1 2	16 48	1 13	12 27	2 9	18 52	0 36	0 54	1 32	25 2	7 57	18 4	18 17	14 37	15 23	6 29			
T 3	4 29	15 18	4 47	2 56	0 18	17 55	1 39	20 54	1 1	16 48	1 13	12 29	2 9	18 51	0 36	0 55	1 32	25 1	7 58	18 3	18 17	14 39	15 21	6 30			
W 4	4 6	11 49	5 2	3 39	0 26	17 46	1 34	20 59	0 59	16 47	1 13	12 31	2 9	18 51	0 36	0 56	1 32	25 1	7 58	18 0	18 16	14 40	15 20	6 30			
T 5	3 43	7 51	5 2	4 21	0 34	17 36	1 29	21 4	0 58	16 47	1 13	12 33	2 9	18 50	0 36	0 57	1 32	25 1	7 58	17 58	18 15	14 42	15 19	6 31			
F 6	3 20	3 36	4 48	5 3	0 41	17 26	1 23	21 9	0 57	16 47	1 14	12 35	2 9	18 49	0 36	0 58	1 32	25 1	7 58	17 55	18 14	14 43	15 18	6 32			
S 7	2 57	0n43	4 20	5 44	0 49	17 15	1 18	21 14	0 55	16 46	1 14	12 37	2 8	18 48	0 36	0 59	1 32	25 0	7 58	17 52	18 13	14 44	15 16	6 32			
S 8	2 33	4 58	3 40	6 25	0 56	17 4	1 13	21 19	0 54	16 46	1 14	12 39	2 8	18 48	0 36	1 0	1 32	25 0	7 59	17 49	18 12	14 46	15 15	6 33			
M 9	2 10	8 57	2 51	7 5	1 4	16 52	1 8	21 23	0 52	16 45	1 14	12 41	2 8	18 47	0 37	1 0	1 32	25 0	7 59	17 47	18 12	14 47	15 14	6 33			
T 10	1 46	12 33	1 55	7 45	1 12	16 40	1 2	21 28	0 51	16 45	1 14	12 43	2 8	18 46	0 37	1 1	1 32	25 0	7 59	17 46	18 11	14 49	15 13	6 34			
W11	1 23	15 38	0 54	8 24	1 19	16 27	0 57	21 32	0 50	16 44	1 14	12 44	2 8	18 46	0 37	1 2	1 32	25 0	7 59	17 45	18 10	14 50	15 11	6 34			
T 12	1 0	18 3	0s 9	9 2	1 27	16 14	0 52	21 37	0 48	16 43	1 14	12 46	2 8	18 45	0 37	1 3	1 32	24 59	7 59	17 45	18 9	14 52	15 10	6 35			
F 13	0 36	19 42	1 12	9 40	1 34	16 1	0 47	21 41	0 47	16 43	1 14	12 48	2 7	18 44	0 37	1 4	1 32	24 59	8 0	17 45	18 8	14 53	15 9	6 36			
S 14	0 13	20 29	2 13	10 17	1 41	15 46	0 42	21 45	0 45	16 42	1 15	12 50	2 7	18 44	0 37	1 5	1 32	24 59	8 0	17 46	18 7	14 54	15 8	6 36			
S 15	0s11	20 20	3 9	10 53	1 48	15 32	0 37	21 49	0 43	16 41	1 15	12 53	2 7	18 43	0 37	1 6	1 32	24 59	8 0	17 46	18 7	14 56	15 6	6 37			
M16	0 35	19 13	3 57	11 28	1 56	15 17	0 32	21 53	0 42	16 40	1 15	12 55	2 7	18 42	0 37	1 7	1 32	24 59	8 0	17 46	18 6	14 57	15 5	6 37			
T 17	0 58	17 6	4 35	12 3	2 2	15 1	0 27	21 57	0 40	16 39	1 15	12 57	2 7	18 42	0 37	1 7	1 32	24 59	8 1	17 45	18 5	14 59	15 4	6 38			
W18	1 22	14 2	5 0	12 36	2 9	14 45	0 23	22 1	0 39	16 38	1 15	12 59	2 7	18 41	0 37	1 8	1 32	24 58	8 1	17 44	18 4	15 0	15 3	6 39			
T 19	1 45	10 8	5 9	13 9	2 16	14 29	0 18	22 5	0 37	16 37	1 15	13 1	2 7	18 40	0 37	1 9	1 32	24 58	8 1	17 43	18 3	15 1	15 2	6 39			
F 20	2 9	5 33	5 0	13 40	2 22	14 12	0 13	22 9	0 35	16 36	1 15	13 3	2 6	18 40	0 37	1 10	1 32	24 58	8 1	17 41	18 2	15 3	15 0	6 40			
S 21	2 32	0 31	4 32	14 11	2 28	13 55	0 9	22 12	0 33	16 35	1 15	13 5	2 6	18 39	0 37	1 11	1 32	24 58	8 2	17 39	18 2	15 4	14 59	6 41			
S 22	2 56	4s39	3 44	14 40	2 34	13 37	0 4	22 16	0 32	16 34	1 15	13 7	2 6	18 39	0 37	1 12	1 32	24 58	8 2	17 37	18 1	15 5	14 58	6 41			
M23	3 19	9 36	2 41	15 8	2 40	13 19	0n 0	22 19	0 30	16 32	1 16	13 9	2 6	18 38	0 37	1 13	1 32	24 58	8 2	17 36	18 0	15 7	14 57	6 42			
T 24	3 43	13 58	1 26	15 35	2 45	13 0	0 5	22 23	0 28	16 31	1 16	13 11	2 6	18 37	0 37	1 14	1 32	24 58	8 2	17 35	17 59	15 8	14 56	6 42			
W25	4 6	17 22	0 6	16 0	2 50	12 41	0 9	22 26	0 26	16 30	1 16	13 13	2 6	18 37	0 37	1 14	1 32	24 58	8 3	17 35	17 58	15 10	14 55	6 43			
T 26	4 30	19 35	1n14	16 24	2 55	12 21	0 13	22 30	0 24	16 28	1 16	13 15	2 6	18 36	0 37	1 15	1 32	24 58	8 3	17 35	17 57	15 11	14 54	6 44			
F 27	4 53	20 27	2 27	16 47	2 59	12 1	0 17	22 33	0 22	16 27	1 16	13 17	2 5	18 36	0 37	1 16	1 32	24 58	8 3	17 35	17 57	15 12	14 52	6 44			
S 28	5 16	20 1	3 29	17 7	3 3	11 41	0 21	22 36	0 20	16 26	1 16	13 20	2 5	18 35	0 37	1 17	1 32	24 58	8 4	17 36	17 56	15 14	14 51	6 45			
S 29	5 39	18 24	4 18	17 26	3 6	11 21	0 25	22 39	0 18	16 24	1 16	13 22	2 5	18 35	0 37	1 18	1 32	24 58	8 4	17 36	17 55	15 15	14 50	6 46			
M30	6s 2	15s49	4n52	17s43	3s 8	11n 0	0n29	22n42	0s16	16n22	1s16	13s24	2n 5	18n34	0n37	1s19	1n32	24n58	8n 4	17s36	17s54	15n16	14n49	6s46			

ASTRODIENST EPHEMERIS for the year 1454

geocentric

OCTOBER 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 12 41	16♌1707	11♏9	10♍20	3♎52	18♏21	19♏11	11♍47	9♏22	6♌53	12♏4	19♏14	20♍21	8♏9	23♏18	T 1
W 2	1 16 37	17°16'44	23°52	10°56	5°1	18°32	19♏5	11°54	9°23	6°55	12°5	19♍10	20°18	8°16	23°21	W 2
T 3	1 20 34	18°16'22	6♏22	11°27	6°10	18°43	18°59	12°1	9°25	6°58	12°6	19°5	20°15	8°22	23°23	T 3
F 4	1 24 30	19°16'03	18°40	11°53	7°19	18°52	18°53	12°8	9°27	7°0	12°7	19°0	20°11	8°29	23°25	F 4
S 5	1 28 27	20°15'45	0♏48	12°12	8°29	19°1	18°47	12°14	9°29	7°2	12°7	18°55	20°8	8°35	23°28	S 5
S 6	1 32 23	21°15'29	12°48	12°25	9°38	19°9	18°40	12°21	9°31	7°4	12°8	18°50	20°5	8°42	23°30	S 6
M 7	1 36 20	22°15'15	24°42	12°R30	10°48	19°17	18°34	12°28	9°32	7°6	12°9	18°47	20°2	8°49	23°32	M 7
T 8	1 40 16	23°15'03	6♏31	12°27	11°58	19°24	18°27	12°35	9°34	7°9	12°10	18°45	19°59	8°55	23°34	T 8
W 9	1 44 13	24°14'54	18°19	12°16	13°8	19°29	18°20	12°42	9°35	7°11	12°11	18°D44	19°55	9°2	23°36	W 9
T 10	1 48 10	25°14'46	0♏6	11°57	14°19	19°35	18°13	12°49	9°37	7°13	12°11	18°45	19°52	9°9	23°38	T 10
F 11	1 52 6	26°14'40	11°57	11°28	15°29	19°39	18°6	12°55	9°38	7°15	12°12	18°46	19°49	9°15	23°39	F 11
S 12	1 56 3	27°14'37	23°54	10°49	16°40	19°43	17°59	13°2	9°40	7°17	12°13	18°48	19°46	9°22	23°41	S 12
S 13	1 59 59	28°14'36	6♏2	10°2	17°50	19°45	17°52	13°9	9°41	7°19	12°13	18°49	19°43	9°29	23°42	S 13
M14	2 3 56	29°14'37	18°26	9°6	19°1	19°47	17°45	13°16	9°43	7°21	12°14	18°50	19°40	9°35	23°44	M14
T 15	2 7 52	0♏14'40	1♏8	8°2	20°12	19°48	17°37	13°23	9°44	7°23	12°15	18°R51	19°36	9°42	23°45	T 15
W16	2 11 49	1°14'45	14°14	6°52	21°23	19°R48	17°30	13°30	9°45	7°26	12°15	18°50	19°33	9°49	23°46	W16
T 17	2 15 45	2°14'53	27°47	5°37	22°34	19°48	17°22	13°37	9°46	7°28	12°16	18°49	19°30	9°55	23°47	T 17
F 18	2 19 42	3°15'02	11♏47	4°19	23°46	19°46	17°14	13°44	9°47	7°30	12°16	18°47	19°27	10°2	23°48	F 18
S 19	2 23 39	4°15'14	26°15	3°0	24°57	19°43	17°7	13°51	9°48	7°32	12°17	18°45	19°24	10°9	23°49	S 19
S 20	2 27 35	5°15'28	11♏5	1°44	26°9	19°40	16°59	13°58	9°49	7°34	12°17	18°43	19°21	10°15	23°50	S 20
M21	2 31 32	6°15'43	26°11	0°32	27°21	19°36	16°51	14°6	9°50	7°36	12°18	18°42	19°17	10°22	23°51	M21
T 22	2 35 28	7°16'01	11♏25	29♏27	28°32	19°31	16°43	14°13	9°51	7°38	12°18	18°D41	19°14	10°28	23°51	T 22
W23	2 39 25	8°16'20	26°36	28°31	29°44	19°25	16°35	14°20	9°52	7°40	12°19	18°41	19°11	10°35	23°52	W23
T 24	2 43 21	9°16'41	11♏35	27°45	0♏56	19°18	16°27	14°27	9°53	7°42	12°19	18°42	19°8	10°42	23°52	T 24
F 25	2 47 18	10°17'04	26°15	27°10	2°8	19°10	16°19	14°34	9°54	7°44	12°19	18°43	19°5	10°48	23°53	F 25
S 26	2 51 14	11°17'28	10♏30	26°46	3°20	19°1	16°11	14°41	9°54	7°46	12°20	18°43	19°1	10°55	23°53	S 26
S 27	2 55 11	12°17'53	24°19	26°35	4°33	18°52	16°2	14°48	9°55	7°48	12°20	18°44	18°58	11°2	23°53	S 27
M28	2 59 8	13°18'20	7♏42	26°D34	5°45	18°41	15°54	14°55	9°55	7°50	12°20	18°R44	18°55	11°8	23°R53	M28
T 29	3 3 4	14°18'48	20°42	26°45	6°58	18°30	15°46	15°2	9°56	7°51	12°20	18°44	18°52	11°15	23°53	T 29
W30	3 7 1	15°19'17	3♏20	27°5	8°10	18°18	15°38	15°10	9°56	7°53	12°21	18°44	18°49	11°22	23°53	W30
T 31	3 10 57	16♏19'48	15♏42	27♏35	9♏23	18♏5	15♏30	15♏17	9♏57	7♏55	12♏21	18♏44	18♏46	11♏28	23♏52	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	6s25	12s31	5n10	17s58	3s10	10n38	0n33	22n46	0s14	16n21	1s16	13s26	2n5	18n34	0n37	1s20
W 2	6 48	8 42	5 12	18 11	3 12	10 16	0 37	22 49	0 12	16 19	1 16	13 28	2 5	18 33	0 37	1 21
T 3	7 11	4 35	4 59	18 21	3 12	9 54	0 41	22 52	0 10	16 18	1 16	13 30	2 5	18 33	0 37	1 21
F 4	7 34	0 20	4 32	18 28	3 11	9 32	0 44	22 55	0 8	16 16	1 16	13 32	2 5	18 32	0 37	1 22
S 5	7 56	3n53	3 53	18 33	3 10	9 9	0 48	22 58	0 6	16 14	1 16	13 35	2 5	18 32	0 37	1 23
S 6	8 19	7 54	3 5	18 34	3 7	8 46	0 51	23 0	0 3	16 12	1 16	13 37	2 4	18 31	0 37	1 24
M 7	8 41	11 35	2 9	18 32	3 3	8 23	0 55	23 3	0 1	16 11	1 16	13 39	2 4	18 31	0 37	1 25
T 8	9 4	14 47	1 7	18 27	2 58	7 59	0 58	23 6	0n 1	16 9	1 16	13 41	2 4	18 31	0 38	1 26
W 9	9 26	17 22	0 2	18 17	2 51	7 35	1 1	23 9	0 4	16 7	1 16	13 43	2 4	18 30	0 38	1 26
T 10	9 48	19 13	1s 2	18 3	2 43	7 11	1 4	23 12	0 6	16 5	1 16	13 45	2 4	18 30	0 38	1 27
F 11	10 10	20 14	2 5	17 44	2 33	6 46	1 7	23 15	0 8	16 3	1 16	13 48	2 4	18 30	0 38	1 28
S 12	10 31	20 20	3 2	17 21	2 21	6 21	1 10	23 17	0 11	16 1	1 16	13 50	2 4	18 29	0 38	1 29
S 13	10 53	19 30	3 53	16 53	2 8	5 56	1 13	23 20	0 13	15 59	1 16	13 52	2 4	18 29	0 38	1 30
M14	11 14	17 43	4 33	16 21	1 53	5 31	1 16	23 23	0 16	15 57	1 16	13 54	2 4	18 29	0 38	1 31
T 15	11 35	15 3	5 2	15 44	1 36	5 5	1 18	23 25	0 18	15 55	1 16	13 56	2 4	18 28	0 38	1 31
W16	11 56	11 34	5 16	15 4	1 17	4 40	1 21	23 28	0 21	15 53	1 16	13 58	2 4	18 28	0 38	1 32
T 17	12 17	7 23	5 13	14 20	0 58	4 14	1 23	23 30	0 24	15 51	1 16	14 0	2 4	18 28	0 38	1 33
F 18	12 38	2 40	4 52	13 35	0 38	3 48	1 26	23 33	0 26	15 48	1 16	14 3	2 4	18 27	0 38	1 34
S 19	12 58	2s21	4 12	12 49	0 17	3 21	1 28	23 35	0 29	15 46	1 16	14 5	2 3	18 27	0 38	1 35
S 20	13 19	7 22	3 14	12 3	0n 4	2 55	1 30	23 38	0 32	15 44	1 16	14 7	2 3	18 27	0 38	1 35
M21	13 39	12 2	2 2	11 19	0 24	2 28	1 32	23 40	0 34	15 42	1 16	14 9	2 3	18 27	0 38	1 36
T 22	13 59	15 56	0 40	10 38	0 43	2 1	1 34	23 43	0 37	15 40	1 16	14 11	2 3	18 27	0 38	1 37
W23	14 18	18 44	0n44	10 2	1 1	1 34	1 36	23 45	0 40	15 38	1 16	14 13	2 3	18 26	0 38	1 38
T 24	14 38	20 12	2 4	9 30	1 17	1 7	1 38	23 47	0 43	15 35	1 16	14 15	2 3	18 26	0 38	1 38
F 25	14 57	20 13	3 14	9 4	1 32	0 40	1 40	23 50	0 46	15 33	1 16	14 18	2 3	18 26	0 38	1 39
S 26	15 16	18 56	4 10	8 44	1 44	0 13	1 41	23 52	0 49	15 31	1 16	14 20	2 3	18 26	0 38	1 40
S 27	15 34	16 33	4 50	8 29	1 55	0s14	1 43	23 54	0 52	15 29	1 16	14 22	2 3	18 26	0 38	1 41
M28	15 53	13 22	5 12	8 21	2 4	0 42	1 44	23 56	0 55	15 26	1 16	14 24	2 3	18 26	0 38	1 41
T 29	16 11	9 37	5 18	8 18	2 11	1 9	1 45	23 58	0 57	15 24	1 16	14 26	2 3	18 26	0 38	1 42
W30	16 29	5 31	5 8	8 21	2 16	1 37	1 47	24 0	1 0	15 22	1 16	14 28	2 3	18 25	0 38	1 43
T 31	16s46	1s18	4n44	8s28	2n20	2s 4	1n48	24n 1	1n 3	15n19	1s15	14s30	2n 3	18n25	0n38	1s43

Julian Day Number = 2252404.5, Delta T = 06m21s

Ecliptic obliquity = 23°30'31", Nutation = 0°00'13", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°08'00", Lahiri = 16°15'01" Julian Calendar 1 Oct. 1454 == Greg. Calendar 10 Oct. 1454

ASTRODIENST EPHEMERIS for the year 1454

geocentric

NOVEMBER 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 14 54	17 ¹¹ 20'20	27 ¹¹ 50	28 ¹¹ 14	10 ¹¹ 35	17 ¹¹ R51	15 ¹¹ R22	15 ¹¹ M24	9 ¹¹ Ω57	7 ¹¹ Δ57	12 ¹¹ Ω21	18 ¹¹ R44	18 ¹¹ M42	11 ¹¹ Ω35	23 ¹¹ R52	F 1
S 2	3 18 50	18 ¹¹ 20'54	9 ¹¹ Y48	29 ¹¹ 0	11 ¹¹ 48	17 ¹¹ II37	15 ¹¹ Ω13	15 ¹¹ Ω31	9 ¹¹ Ω57	7 ¹¹ Ω59	12 ¹¹ Ω21	18 ¹¹ D43	18 ¹¹ Ω39	11 ¹¹ Δ42	23 ¹¹ Ω52	S 2
S 3	3 22 47	19 ¹¹ 21'28	21 ¹¹ 40	29 ¹¹ 52	13 ¹¹ 1	17 ¹¹ 22	15 ¹¹ 5	15 ¹¹ 38	9 ¹¹ Ω58	8 ¹¹ 1	12 ¹¹ 21	18 ¹¹ M43	18 ¹¹ Ω36	11 ¹¹ 48	23 ¹¹ 51	S 3
M 4	3 26 43	20 ¹¹ 22'04	3 ¹¹ Ω29	0 ¹¹ M51	14 ¹¹ 14	17 ¹¹ 6	14 ¹¹ 57	15 ¹¹ 45	9 ¹¹ Ω58	8 ¹¹ 2	12 ¹¹ 21	18 ¹¹ 44	18 ¹¹ Ω33	11 ¹¹ 55	23 ¹¹ 50	M 4
T 5	3 30 40	21 ¹¹ 22'42	15 ¹¹ 17	1 ¹¹ 54	15 ¹¹ 27	16 ¹¹ 49	14 ¹¹ 49	15 ¹¹ 52	9 ¹¹ Ω58	8 ¹¹ 4	12 ¹¹ R21	18 ¹¹ R44	18 ¹¹ Ω30	12 ¹¹ 1	23 ¹¹ 49	T 5
W 6	3 34 37	22 ¹¹ 23'21	27 ¹¹ 6	3 ¹¹ 2	16 ¹¹ 40	16 ¹¹ 31	14 ¹¹ 41	15 ¹¹ 59	9 ¹¹ Ω58	8 ¹¹ 6	12 ¹¹ 21	18 ¹¹ 44	18 ¹¹ Ω27	12 ¹¹ 8	23 ¹¹ 49	W 6
T 7	3 38 33	23 ¹¹ 24'01	8 ¹¹ II58	4 ¹¹ 14	17 ¹¹ 53	16 ¹¹ 13	14 ¹¹ 33	16 ¹¹ 6	9 ¹¹ R58	8 ¹¹ 8	12 ¹¹ 21	18 ¹¹ 43	18 ¹¹ Ω23	12 ¹¹ 15	23 ¹¹ 48	T 7
F 8	3 42 30	24 ¹¹ 24'43	20 ¹¹ 56	5 ¹¹ 29	19 ¹¹ 6	15 ¹¹ 55	14 ¹¹ 25	16 ¹¹ 14	9 ¹¹ Ω58	8 ¹¹ 9	12 ¹¹ 21	18 ¹¹ 43	18 ¹¹ Ω20	12 ¹¹ 21	23 ¹¹ 46	F 8
S 9	3 46 26	25 ¹¹ 25'27	3 ¹¹ Ω 2	6 ¹¹ 47	20 ¹¹ 20	15 ¹¹ 35	14 ¹¹ 17	16 ¹¹ 21	9 ¹¹ Ω58	8 ¹¹ 11	12 ¹¹ 21	18 ¹¹ 42	18 ¹¹ Ω17	12 ¹¹ 28	23 ¹¹ 45	S 9
S 10	3 50 23	26 ¹¹ 26'12	15 ¹¹ 17	8 ¹¹ 7	21 ¹¹ 33	15 ¹¹ 15	14 ¹¹ 9	16 ¹¹ 28	9 ¹¹ Ω58	8 ¹¹ 13	12 ¹¹ 21	18 ¹¹ 41	18 ¹¹ Ω14	12 ¹¹ 35	23 ¹¹ 44	S 10
M 11	3 54 19	27 ¹¹ 26'58	27 ¹¹ 46	9 ¹¹ 29	22 ¹¹ 46	14 ¹¹ 55	14 ¹¹ 2	16 ¹¹ 35	9 ¹¹ Ω58	8 ¹¹ 14	12 ¹¹ 20	18 ¹¹ 40	18 ¹¹ Ω11	12 ¹¹ 41	23 ¹¹ 43	M 11
T 12	3 58 16	28 ¹¹ 27'46	10 ¹¹ Ω30	10 ¹¹ 53	24 ¹¹ 0	14 ¹¹ 34	13 ¹¹ 54	16 ¹¹ 42	9 ¹¹ Ω57	8 ¹¹ 16	12 ¹¹ 20	18 ¹¹ 39	18 ¹¹ Ω 7	12 ¹¹ 48	23 ¹¹ 41	T 12
W 13	4 2 12	29 ¹¹ 28'35	23 ¹¹ 33	12 ¹¹ 18	25 ¹¹ 14	14 ¹¹ 12	13 ¹¹ 46	16 ¹¹ 49	9 ¹¹ Ω57	8 ¹¹ 17	12 ¹¹ 20	18 ¹¹ D38	18 ¹¹ Ω 4	12 ¹¹ 55	23 ¹¹ 40	W 13
T 14	4 6 9	0 ¹¹ Δ29'26	6 ¹¹ II57	13 ¹¹ 45	26 ¹¹ 27	13 ¹¹ 51	13 ¹¹ 39	16 ¹¹ 56	9 ¹¹ Ω57	8 ¹¹ 19	12 ¹¹ 20	18 ¹¹ 38	18 ¹¹ Ω 1	13 ¹¹ 1	23 ¹¹ 38	T 14
F 15	4 10 6	1 ¹¹ 30'19	20 ¹¹ 44	15 ¹¹ 12	27 ¹¹ 41	13 ¹¹ 28	13 ¹¹ 31	17 ¹¹ 3	9 ¹¹ Ω56	8 ¹¹ 20	12 ¹¹ 20	18 ¹¹ 39	17 ¹¹ 58	13 ¹¹ 8	23 ¹¹ 36	F 15
S 16	4 14 2	2 ¹¹ 31'12	4 ¹¹ Δ54	16 ¹¹ 41	28 ¹¹ 55	13 ¹¹ 6	13 ¹¹ 24	17 ¹¹ 10	9 ¹¹ Ω56	8 ¹¹ 22	12 ¹¹ 19	18 ¹¹ 40	17 ¹¹ 55	13 ¹¹ 15	23 ¹¹ 34	S 16
S 17	4 17 59	3 ¹¹ 32'07	19 ¹¹ 27	18 ¹¹ 10	0 ¹¹ M 8	12 ¹¹ 43	13 ¹¹ 17	17 ¹¹ 17	9 ¹¹ Ω55	8 ¹¹ 23	12 ¹¹ 19	18 ¹¹ 41	17 ¹¹ 52	13 ¹¹ 21	23 ¹¹ 32	S 17
M 18	4 21 55	4 ¹¹ 33'04	4 ¹¹ M 19	19 ¹¹ 40	1 ¹¹ 22	12 ¹¹ 20	13 ¹¹ 10	17 ¹¹ 24	9 ¹¹ Ω54	8 ¹¹ 25	12 ¹¹ 19	18 ¹¹ 42	17 ¹¹ 48	13 ¹¹ 28	23 ¹¹ 30	M 18
T 19	4 25 52	5 ¹¹ 34'02	19 ¹¹ 22	21 ¹¹ 10	2 ¹¹ 36	11 ¹¹ 57	13 ¹¹ 3	17 ¹¹ 31	9 ¹¹ Ω54	8 ¹¹ 26	12 ¹¹ 18	18 ¹¹ R43	17 ¹¹ 45	13 ¹¹ 35	23 ¹¹ 28	T 19
W 20	4 29 48	6 ¹¹ 35'01	4 ¹¹ Δ30	22 ¹¹ 41	3 ¹¹ 50	11 ¹¹ 33	12 ¹¹ 56	17 ¹¹ 37	9 ¹¹ Ω53	8 ¹¹ 28	12 ¹¹ 18	18 ¹¹ 42	17 ¹¹ 42	13 ¹¹ 41	23 ¹¹ 26	W 20
T 21	4 33 45	7 ¹¹ 36'01	19 ¹¹ 33	24 ¹¹ 12	5 ¹¹ 4	11 ¹¹ 10	12 ¹¹ 49	17 ¹¹ 44	9 ¹¹ Ω52	8 ¹¹ 29	12 ¹¹ 17	18 ¹¹ 40	17 ¹¹ 39	13 ¹¹ 48	23 ¹¹ 24	T 21
F 22	4 37 41	8 ¹¹ 37'01	4 ¹¹ Ω21	25 ¹¹ 43	6 ¹¹ 18	10 ¹¹ 46	12 ¹¹ 42	17 ¹¹ 51	9 ¹¹ Ω52	8 ¹¹ 30	12 ¹¹ 17	18 ¹¹ 38	17 ¹¹ 36	13 ¹¹ 54	23 ¹¹ 21	F 22
S 23	4 41 38	9 ¹¹ 38'03	18 ¹¹ 48	27 ¹¹ 15	7 ¹¹ 32	10 ¹¹ 23	12 ¹¹ 36	17 ¹¹ 58	9 ¹¹ Ω51	8 ¹¹ 32	12 ¹¹ 16	18 ¹¹ 35	17 ¹¹ 33	14 ¹¹ 1	23 ¹¹ 19	S 23
S 24	4 45 35	10 ¹¹ 39'05	2 ¹¹ Δ49	28 ¹¹ 47	8 ¹¹ 46	10 ¹¹ 0	12 ¹¹ 29	18 ¹¹ 5	9 ¹¹ Ω50	8 ¹¹ 33	12 ¹¹ 16	18 ¹¹ 32	17 ¹¹ 29	14 ¹¹ 8	23 ¹¹ 16	S 24
M 25	4 49 31	11 ¹¹ 40'08	16 ¹¹ 22	0 ¹¹ Δ19	10 ¹¹ 0	9 ¹¹ 37	12 ¹¹ 23	18 ¹¹ 11	9 ¹¹ Ω49	8 ¹¹ 34	12 ¹¹ 15	18 ¹¹ 29	17 ¹¹ 26	14 ¹¹ 14	23 ¹¹ 14	M 25
T 26	4 53 28	12 ¹¹ 41'11	29 ¹¹ 28	1 ¹¹ 51	11 ¹¹ 15	9 ¹¹ 14	12 ¹¹ 17	18 ¹¹ 18	9 ¹¹ Ω48	8 ¹¹ 35	12 ¹¹ 15	18 ¹¹ 28	17 ¹¹ 23	14 ¹¹ 21	23 ¹¹ 11	T 26
W 27	4 57 24	13 ¹¹ 42'15	12 ¹¹ Δ10	3 ¹¹ 23	12 ¹¹ 29	8 ¹¹ 51	12 ¹¹ 11	18 ¹¹ 25	9 ¹¹ Ω47	8 ¹¹ 37	12 ¹¹ 14	18 ¹¹ D27	17 ¹¹ 20	14 ¹¹ 28	23 ¹¹ 8	W 27
T 28	5 1 21	14 ¹¹ 43'19	24 ¹¹ 31	4 ¹¹ 56	13 ¹¹ 43	8 ¹¹ 28	12 ¹¹ 5	18 ¹¹ 31	9 ¹¹ Ω46	8 ¹¹ 38	12 ¹¹ 13	18 ¹¹ 27	17 ¹¹ 17	14 ¹¹ 34	23 ¹¹ 5	T 28
F 29	5 5 17	15 ¹¹ 44'24	6 ¹¹ Y36	6 ¹¹ 29	14 ¹¹ 57	8 ¹¹ 6	12 ¹¹ 0	18 ¹¹ 38	9 ¹¹ Ω44	8 ¹¹ 39	12 ¹¹ 13	18 ¹¹ 29	17 ¹¹ 13	14 ¹¹ 41	23 ¹¹ 2	F 29
S 30	5 9 14	16 ¹¹ Δ45'29	18 ¹¹ Y30	8 ¹¹ Δ 1	16 ¹¹ M 12	7 ¹¹ II45	11 ¹¹ Ω54	18 ¹¹ M45	9 ¹¹ Ω43	8 ¹¹ Δ40	12 ¹¹ Ω12	18 ¹¹ M30	17 ¹¹ M 10	14 ¹¹ Ω48	22 ¹¹ Ω59	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	17s 3	2n55	4n 7	8s40	2n22	2s32	1n49	24n 3	1n 6	15n17	1s15	14s32	2n 3	18n25	0n38	1s44	1n33	25n 1	8n14	17s27	17s26	15n58	14n21	7s 9					
S 2	17 20	6 58	3 20	8 55	2 23	3 0	1 50	24 5	1 9	15 15	1 15	14 34	2 3	18 25	0 39	1 45	1 33	25 2	8 14	17 27	17 25	15 59	14 20	7 10					
S 3	17 37	10 43	2 25	9 14	2 23	3 27	1 51	24 6	1 12	15 13	1 15	14 37	2 3	18 25	0 39	1 46	1 33	25 2	8 14	17 27	17 25	16 0	14 19	7 11					
M 4	17 53	14 2	1 24	9 35	2 22	3 55	1 51	24 8	1 15	15 10	1 15	14 39	2 3	18 25	0 39	1 46	1 33	25 2	8 14	17 27	17 24	16 1	14 19	7 11					
T 5	18 9	16 46	0 19	9 59	2 20	4 23	1 52	24 9	1 18	15 8	1 15	14 41	2 3	18 25	0 39	1 47	1 33	25 2	8 15	17 27	17 23	16 2	14 18	7 12					
W 6	18 25	18 49	0s46	10 25	2 17	4 50	1 53	24 10	1 21	15 6	1 15	14 43	2 3	18 25	0 39	1 47	1 33	25 3	8 15	17 27	17 22	16 4	14 18	7 13					
T 7	18 41	20 3	1 50	10 52	2 13	5 18	1 53	24 11	1 24	15 4	1 15	14 45	2 3	18 25	0 39	1 48	1 33	25 3	8 15	17 27	17 21	16 5	14 17	7 13					
F 8	18 56	20 22	2 50	11 21	2 9	5 45	1 54	24 12	1 27	15 2	1 14	14 47	2 3	18 25	0 39	1 49	1 33	25 3	8 16	17 26	17 20	16 6	14 17	7 14					
S 9	19 10	19 46	3 42	11 51	2 4	6 12	1 54	24 13	1 30	14 59	1 14	14 49	2 3	18 25	0 39	1 49	1 33	25 4	8 16	17 26	17 19	16 7	14 16	7 15					
S 10	19 25	18 14	4 25	12 22	1 59	6 40	1 54	24 14	1 33	14 57	1 14	14 51	2 3	18 26	0 39	1 50	1 34	25 4	8 16	17 26	17 18	16 8	14 16	7 15					
M 11	19 39	15 49	4 57	12 54	1 54	7 7	1 54	24 14	1 36	14 55	1 14	14 53	2 3	18 26	0 39	1 51	1 34	25 4	8 17	17 26	17 18	16 10	14 15	7 16					
T 12	19 53	12 37	5 14	13 26	1 48	7 34	1 54	24 15	1 39	14 53	1 14	14 55	2 3	18 26	0 39	1 51	1 34	25 5	8 17	17 25	17 17	16 11	14 15	7 17					
W 13	20 6	8 44	5 16	13 58	1 42	8 1	1 54	24 15	1 42	14 51	1 14	14 57	2 3	18 26	0 39	1 52	1 34	25 5	8 17	17 25	17 16	16 12	14 15	7 17					
T 14	20 19	4 19	5 2	14 30	1 35	8 28	1 54	24 15	1 44	14 49	1 13	14 59	2 3	18 26	0 39	1 52	1 34	25 5	8 17	17 25	17 15	16 13	14 14	7 18					
F 15	20 31	0s26	4 29	15 2	1 28	8 55	1 54	24 15	1 47	14 47	1 13	15 1	2 3	18 26	0 39	1 53	1 34	25 6	8 18	17 25	17 14	16 14	14 14	7 19					
S 16	20 43	5 19	3 40	15 34	1 22	9 21	1 53	24 15	1 50	14 45	1 13	15 3	2 3	18 26	0 39	1 53	1 34	25 6	8 18	17 26	17 13	16 16	14 14	7 19					
S 17	20 55	10 2	2 35	16 6	1 15	9 47	1 53	24 15	1 53	14 43	1 13	15 4	2 3	18 27	0 39	1 54	1 34	25 7	8 18	17 26	17 12	16 17	14 13	7 20					
M 18	21 7	14 14	1 19	16 37	1 8	10 14	1 53	24 14	1 55	14 41	1 13	15 6	2 3	18 27	0 39	1 54	1 34	25 7	8 19	17 26	17 11	16 18	14 13	7 21					
T 19	21 18	17 34	0n 4	17 8	1 1	10 39	1 52	24 14	1 58	14 39	1 12	15 8	2 3	18 27	0 39	1 55	1 34	25 7	8 19	17 26	17 10	16 19	14 13	7 21					
W 20	21 28	19 41	1 26	17 38	0 53	11 5	1 51	24 13	2 0	14 37	1 12	15 10	2 3	18 27	0 39	1 55	1 34	25 8	8 19	17 26	17 10	16 20	14 13	7 22					
T 21	21 38	20 24	2 43	18 8	0 46	11 31	1 51	24 12	2 3	14 35	1 12	15 12	2 3	18 27	0 39	1 56	1 34	25 8	8 20	17 26	17 9	16 21	14 12	7 22					
F 22	21 48	19 40	3 46	18 37	0 39	11 56	1 50	24 11	2 5	14 33	1 12	15 14	2 3	18 28	0 39	1 56	1 34	25 9	8 20	17 25	17 8	16 23	14 12	7 23					
S 23	21 58	17 39	4 34	19 5	0 32	12 21	1 49	24 10	2 7	14 32	1 11	15 16	2 3	18 28	0 39	1 57	1 34	25 9	8 20	17 24	17 7	16 24	14 12	7 23					
S 24	22 6	14 39	5 4	19 33	0 25	12 46	1 48	24 9	2 10	14 30	1 11	15 18	2 3	18 28	0 39	1 57	1 34	25 9	8 20	17 23	17 6	16 25	14 12	7 24					
M 25	22 15	10 57	5 15	19 59	0 17	13 10	1 47	24 8	2 12	14 28	1 11	15 19	2 3	18 29	0 39	1 58	1 34	25 10	8 21	17 23	17 5	16 26	14 12	7 25					
T 26	22 23	6 51	5 10	20 25	0 10	13 34	1 46	24 6	2 14	14 27	1 11	15 21	2 3	18 29	0 39	1 58	1 34	25 10	8 21	17 22	17 4	16 27	14 12	7 25					
W 27	22 31	2 34	4 49	20 50	0 3	13 58	1 45	24 5	2 16	14 25	1 10	15 23	2 3	18 29	0 40	1 59	1 34	25 11	8 21	17 22	17 3	16 28	14 11	7 26					
T 28	22 38	1n43	4 15	21 14	0s 4	14 21	1 43	24 3	2 18	14 24	1 10	15 25	2 3	18 29	0 40	1 59	1 34	25 11	8 22	17 22	17 2	16 29	14 11	7 26					
F 29	22 45	5 51	3 31	21 37	0 10	14 45	1 42	24 1	2 20	14 22	1 10	15 27	2 3	18 30	0 40	1 59	1 34	25 12	8 22	17 23	17 1	16 30	14 11	7 27					
S 30	22s51	9n42	2n38	22s 0	0s17	15s 7	1n41	24n 0	2n22	14n21	1s10	15s28	2n 3	18n30	0n40	2s 0	1n35	25n12	8n22	17s23	17s 1	16n32	14n11	7s27					

ASTRODIENST EPHEMERIS for the year 1454

geocentric

DECEMBER 1454 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 13 10	17°46'34	08°19	9°34	17°26	7°R23	11°R49	18°51	9°R42	8°41	12°R11	18°32	17° 7	14°54	22°R56	S 1
M 2	5 17 7	18°47'40	12° 5	11° 8	18°40	7°II 2	11°844	18°58	9°Q41	8°42	12°Q11	18°33	17° 4	15° 1	22°53	M 2
T 3	5 21 4	19°48'46	23°54	12°41	19°55	6°42	11°39	19° 4	9°39	8°43	12°10	18°R33	17° 1	15° 8	22°50	T 3
W 4	5 25 0	20°49'53	5°II47	14°14	21° 9	6°22	11°34	19°11	9°38	8°44	12° 9	18°32	16°58	15°14	22°46	W 4
T 5	5 28 57	21°51'00	17°48	15°48	22°24	6° 3	11°30	19°17	9°36	8°45	12° 8	18°29	16°54	15°21	22°43	T 5
F 6	5 32 53	22°52'07	29°58	17°22	23°38	5°45	11°25	19°23	9°35	8°46	12° 8	18°24	16°51	15°27	22°40	F 6
S 7	5 36 50	23°53'15	12°58	18°56	24°53	5°27	11°21	19°30	9°33	8°47	12° 7	18°18	16°48	15°34	22°36	S 7
S 8	5 40 46	24°54'24	24°49	20°30	26° 7	5° 9	11°17	19°36	9°32	8°48	12° 6	18°11	16°45	15°41	22°33	S 8
M 9	5 44 43	25°55'33	7°Q32	22° 5	27°22	4°53	11°13	19°42	9°30	8°48	12° 5	18° 4	16°42	15°47	22°29	M 9
T 10	5 48 39	26°56'42	20°28	23°39	28°36	4°37	11°10	19°48	9°28	8°49	12° 4	17°58	16°39	15°54	22°25	T 10
W 11	5 52 36	27°57'52	3°III38	25°14	29°51	4°21	11° 6	19°55	9°27	8°50	12° 3	17°54	16°35	16° 1	22°21	W 11
T 12	5 56 33	28°59'02	17° 2	26°50	1° 6	4° 7	11° 3	20° 1	9°25	8°51	12° 2	17°51	16°32	16° 7	22°18	T 12
F 13	6 0 29	0° 0'12	0°42	28°25	2°20	3°53	11° 0	20° 7	9°23	8°51	12° 1	17°D51	16°29	16°14	22°14	F 13
S 14	6 4 26	1° 1'23	14°38	0°3	3°35	3°40	10°57	20°13	9°21	8°52	12° 0	17°51	16°26	16°21	22°10	S 14
S 15	6 8 22	2° 2'35	28°51	1°37	4°50	3°28	10°55	20°19	9°19	8°53	11°59	17°53	16°23	16°27	22° 6	S 15
M 16	6 12 19	3° 3'47	13°19	3°14	6° 4	3°16	10°52	20°24	9°17	8°53	11°58	17°R54	16°19	16°34	22° 2	M 16
T 17	6 16 15	4° 4'59	27°59	4°51	7°19	3° 6	10°50	20°30	9°15	8°54	11°57	17°53	16°16	16°41	21°58	T 17
W 18	6 20 12	5° 6'11	12°47	6°28	8°34	2°56	10°48	20°36	9°13	8°54	11°56	17°51	16°13	16°47	21°54	W 18
T 19	6 24 9	6° 7'24	27°34	8° 5	9°49	2°47	10°46	20°42	9°11	8°55	11°55	17°46	16°10	16°54	21°50	T 19
F 20	6 28 5	7° 8'36	12°34	9°43	11° 4	2°39	10°44	20°47	9° 9	8°55	11°54	17°39	16° 7	17° 1	21°45	F 20
S 21	6 32 2	8° 9'49	26°38	11°22	12°18	2°32	10°43	20°53	9° 7	8°56	11°53	17°31	16° 4	17° 7	21°41	S 21
S 22	6 35 58	9°11'01	10°42	13° 0	13°33	2°25	10°42	20°59	9° 5	8°56	11°51	17°22	16° 0	17°14	21°37	S 22
M 23	6 39 55	10°12'12	24°19	14°39	14°48	2°20	10°41	21° 4	9° 3	8°56	11°50	17°13	15°57	17°20	21°33	M 23
T 24	6 43 51	11°13'23	7°K31	16°19	16° 3	2°15	10°40	21° 9	9° 1	8°57	11°49	17° 6	15°54	17°27	21°28	T 24
W 25	6 47 48	12°14'34	20°17	17°59	17°18	2°11	10°39	21°15	8°58	8°57	11°48	17° 1	15°51	17°34	21°24	W 25
T 26	6 51 44	13°15'43	2°Y42	19°39	18°32	2° 8	10°39	21°20	8°56	8°57	11°47	16°59	15°48	17°40	21°20	T 26
F 27	6 55 41	14°16'53	14°49	21°19	19°47	2° 5	10°D39	21°25	8°54	8°57	11°45	16°D58	15°45	17°47	21°15	F 27
S 28	6 59 38	15°18'01	26°43	23° 0	21° 2	2° 4	10°39	21°30	8°52	8°57	11°44	16°59	15°41	17°54	21°11	S 28
S 29	7 3 34	16°19'09	8°K31	24°41	22°17	2° 3	10°39	21°35	8°49	8°58	11°43	17° 0	15°38	18° 0	21° 7	S 29
M 30	7 7 31	17°20'16	20°18	26°22	23°32	2°D 3	10°40	21°40	8°47	8°58	11°42	17°R 0	15°35	18° 7	21° 2	M 30
T 31	7 11 27	18°21'23	2°II 8	28°3	24°47	2°II 4	10°840	21°M45	8°Q44	8°58	11°Q40	16°M58	15°M32	18°14	20°58	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22s57	13n 9	1n39	22s21	0s24	15s30	1n39	23n58	2n23	14n19	1s 9	15s30	2n 3	18n31	0n40	2s 0	1n35
M 2	23 2 16	4 0	36	22 41	0 30	15 52	1 38	23 56	2 25	14 18	1 9	15 32	2 4	18 31	0 40	2 1	1 35
T 3	23 7 18	20 0	29	23 0	0 37	16 14	1 36	23 54	2 27	14 17	1 9	15 33	2 4	18 31	0 40	2 1	1 35
W 4	23 11 19	48 1	33	23 17	0 43	16 35	1 34	23 52	2 28	14 16	1 9	15 35	2 4	18 32	0 40	2 1	1 35
T 5	23 15 20	24 2	33	23 34	0 49	16 56	1 33	23 50	2 29	14 14	1 8	15 37	2 4	18 32	0 40	2 2	1 35
F 6	23 19 20	3 3	27	23 49	0 55	17 16	1 31	23 48	2 31	14 13	1 8	15 38	2 4	18 33	0 40	2 2	1 35
S 7	23 22 18	45 4	12	24 4	1 1	17 36	1 29	23 46	2 32	14 12	1 8	15 40	2 4	18 33	0 40	2 2	1 35
S 8	23 25 16	33 4	45	24 17	1 7	17 55	1 27	23 44	2 33	14 11	1 8	15 42	2 4	18 34	0 40	2 2	1 35
M 9	23 27 13	31 5	5	24 28	1 12	18 15	1 25	23 42	2 34	14 10	1 7	15 43	2 4	18 34	0 40	2 3	1 35
T 10	23 28 9	48 5	10	24 39	1 18	18 33	1 23	23 40	2 35	14 10	1 7	15 45	2 4	18 35	0 40	2 3	1 35
W 11	23 30 5	33 4	59	24 48	1 23	18 51	1 21	23 38	2 36	14 9	1 7	15 46	2 4	18 35	0 40	2 3	1 35
T 12	23 30 0	58 4	31	24 56	1 27	19 9	1 19	23 36	2 37	14 8	1 6	15 48	2 4	18 36	0 40	2 3	1 35
F 13	23 30 3	s46	3 48	25 2	1 32	19 26	1 17	23 34	2 38	14 7	1 6	15 49	2 4	18 36	0 40	2 4	1 35
S 14	23 30 8	24 2	51	25 7	1 36	19 42	1 15	23 33	2 39	14 7	1 6	15 51	2 4	18 37	0 40	2 4	1 35
S 15	23 30 12	41 1	41	25 10	1 41	19 58	1 13	23 31	2 40	14 6	1 6	15 52	2 5	18 37	0 40	2 4	1 35
M 16	23 28 16	17 0	25	25 13	1 45	20 14	1 11	23 29	2 40	14 6	1 5	15 54	2 5	18 38	0 40	2 4	1 35
T 17	23 27 18	53 0	n54	25 13	1 48	20 28	1 8	23 28	2 41	14 5	1 5	15 55	2 5	18 38	0 40	2 4	1 35
W 18	23 25 20	14 2	10	25 12	1 51	20 43	1 6	23 26	2 41	14 5	1 5	15 57	2 5	18 39	0 40	2 5	1 36
T 19	23 22 20	12 3	18	25 10	1 55	20 56	1 4	23 25	2 42	14 5	1 4	15 58	2 5	18 39	0 40	2 5	1 36
F 20	23 19 18	47 4	11	25 6	1 57	21 9	1 1	23 24	2 42	14 4	1 4	16 0	2 5	18 40	0 40	2 5	1 36
S 21	23 15 16	11 4	47	25 0	2 0	21 22	0 59	23 23	2 42	14 4	1 4	16 1	2 5	18 40	0 40	2 5	1 36
S 22	23 11 12	43 5	5	24 53	2 2	21 34	0 56	23 22	2 43	14 4	1 4	16 2	2 5	18 41	0 40	2 5	1 36
M 23	23 7 8	40 5	5	24 45	2 3	21 45	0 54	23 21	2 43	14 4	1 3	16 4	2 5	18 42	0 40	2 5	1 36
T 24	23 2 4	19 4	48	24 34	2 5	21 55	0 51	23 20	2 43	14 4	1 3	16 5	2 6	18 42	0 40	2 5	1 36
W 25	22 57 0	n 5	4	17 24	2 6	22 5	0 49	23 19	2 43	14 4	1 3	16 6	2 6	18 43	0 40	2 5	1 36
T 26	22 51 4	22 3	35	24 9	2 6	22 15	0 46	23 19	2 43	14 4	1 2	16 7	2 6	18 44	0 40	2 5	1 36
F 27	22 44 8	22 2	44	23 54	2 6	22 23	0 44	23 18	2 43	14 5	1 2	16 9	2 6	18 44	0 40	2 5	1 36
S 28	22 38 11	59 1	47	23 37	2 6	22 31	0 41	23 18	2 43	14 5	1 2	16 10	2 6	18 45	0 40	2 5	1 36
S 29	22 30 15	6 0	45	23 18	2 5	22 39	0 38	23 18	2 43	14 5	1 1	16 11	2 6	18 45	0 40	2 5	1 36
M 30	22 23 17	35 0	s18	22 58	2 4	22 45	0 36	23 18	2 43	14 6	1 1	16 12	2 6	18 46	0 41	2 5	1 36
T 31	22s15	19n20	1s20	22s36	2s 2	22s51	0n33	23n18	2n43	14n 6	1s 1	16s13	2n 6	18n47	0n41	2s 5	1n36

Julian Day Number = 2252465.5, Delta T = 06m20s

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

Ayanamsha: Fagan/Bradley = 17°08'08, Lahiri = 16°15'09 Julian Calendar 1 Dec. 1454 == Greg. Calendar 10 Dec. 1454