



Astrodienst Ephemeris Tables for the year 1409

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 1409

geocentric

JANUARY 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 15 56	19°32'14	4°40	0°46	0°46	5°36	3°R 1	8°Y 8	26°24	25°R23	12°R47	6°R 1	5°8 9	6°H42	29°R22	T 1
W 2	7 19 53	20°33'18	19°18	2°27	1°21	6°21	2°54	8°11	26°28	25°I22	12°I46	5°8 50	5° 6	6°49	29°I19	W 2
T 3	7 23 49	21°34'22	4°10	4° 7	2°36	7° 7	2°47	8°15	26°31	25°20	12°46	5°39	5° 3	6°56	29°16	T 3
F 4	7 27 46	22°35'25	19° 9	5°48	3°52	7°53	2°39	8°18	26°35	25°19	12°45	5°28	5° 0	7° 2	29°13	F 4
S 5	7 31 43	23°36'27	4°17 4	7°27	5° 7	8°39	2°32	8°22	26°38	25°17	12°44	5°18	4°57	7° 9	29°10	S 5
S 6	7 35 39	24°37'29	18°48	9° 6	6°22	9°25	2°25	8°25	26°42	25°16	12°43	5°12	4°54	7°16	29° 6	S 6
M 7	7 39 36	25°38'30	3°14	10°43	7°37	10°11	2°18	8°29	26°45	25°15	12°42	5° 8	4°50	7°22	29° 3	M 7
T 8	7 43 32	26°39'30	17°21	12°19	8°53	10°57	2°11	8°33	26°49	25°13	12°41	5° 6	4°47	7°29	29° 0	T 8
W 9	7 47 29	27°40'30	1°17 7	13°52	10° 8	11°43	2° 5	8°37	26°52	25°12	12°41	5° 6	4°44	7°36	28°56	W 9
T 10	7 51 25	28°41'30	14°34	15°23	11°23	12°29	1°58	8°41	26°56	25°10	12°40	5° 6	4°41	7°42	28°52	T 10
F 11	7 55 22	29°42'28	27°43	16°52	12°38	13°15	1°52	8°45	27° 0	25° 9	12°39	5° 5	4°38	7°49	28°49	F 11
S 12	7 59 18	0°43'27	10°17 39	18°16	13°53	14° 1	1°46	8°50	27° 3	25° 8	12°38	5° 1	4°35	7°56	28°45	S 12
S 13	8 3 15	1°44'24	23°22	19°37	15° 8	14°47	1°39	8°54	27° 7	25° 6	12°38	4°54	4°31	8° 3	28°41	S 13
M14	8 7 12	2°45'20	5°35	20°52	16°23	15°34	1°33	8°58	27°10	25° 5	12°37	4°44	4°28	8° 9	28°37	M14
T 15	8 11 8	3°46'16	18°18	22° 2	17°39	16°20	1°28	9° 3	27°14	25° 4	12°36	4°31	4°25	8°16	28°33	T 15
W16	8 15 5	4°47'10	0°33	23° 6	18°54	17° 6	1°22	9° 8	27°17	25° 3	12°36	4°16	4°22	8°23	28°29	W16
T 17	8 19 1	5°48'04	12°40	24° 2	20° 9	17°52	1°16	9°12	27°21	25° 1	12°35	4° 1	4°19	8°29	28°25	T 17
F 18	8 22 58	6°48'56	24°39	24°51	21°24	18°39	1°11	9°17	27°24	25° 0	12°34	3°47	4°15	8°36	28°21	F 18
S 19	8 26 54	7°49'47	6°33	25°31	22°39	19°25	1° 6	9°22	27°28	24°59	12°34	3°34	4°12	8°43	28°17	S 19
S 20	8 30 51	8°50'36	18°22	26° 1	23°54	20°11	1° 1	9°27	27°31	24°58	12°33	3°25	4° 9	8°49	28°13	S 20
M21	8 34 47	9°51'24	0°Y11	26°21	25° 9	20°58	0°56	9°32	27°35	24°57	12°33	3°18	4° 6	8°56	28° 8	M21
T 22	8 38 44	10°52'10	12° 1	26°R31	26°24	21°44	0°51	9°37	27°38	24°56	12°32	3°14	4° 3	9° 3	28° 4	T 22
W23	8 42 41	11°52'55	23°58	26°30	27°39	22°31	0°46	9°42	27°41	24°55	12°31	3°12	4° 0	9°10	28° 0	W23
T 24	8 46 37	12°53'38	6°8 7	26°18	28°54	23°17	0°42	9°47	27°45	24°54	12°31	3°12	3°56	9°16	27°55	T 24
F 25	8 50 34	13°54'20	18°32	25°56	0°H 9	24° 3	0°38	9°53	27°48	24°53	12°30	3°12	3°53	9°23	27°51	F 25
S 26	8 54 30	14°55'00	1°I20	25°24	1°23	24°50	0°34	9°58	27°52	24°52	12°30	3°11	3°50	9°30	27°46	S 26
S 27	8 58 27	15°55'38	14°34	24°42	2°38	25°37	0°30	10° 3	27°55	24°51	12°29	3° 8	3°47	9°36	27°42	S 27
M28	9 2 23	16°56'15	28°19	23°52	3°53	26°23	0°26	10° 9	27°58	24°50	12°29	3° 2	3°44	9°43	27°37	M28
T 29	9 6 20	17°56'50	12°33	22°55	5° 8	27°10	0°23	10°15	28° 2	24°49	12°29	2°54	3°41	9°50	27°32	T 29
W30	9 10 16	18°57'23	27°16	21°52	6°23	27°56	0°20	10°20	28° 5	24°48	12°28	2°44	3°37	9°56	27°28	W30
T 31	9 14 13	19°57'54	12°19	20°46	7°H37	28°34	0°17	10°Y26	28°9	24°I47	12°I28	2°33	3°34	10°H 3	27°I23	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s 5	27n43	4n17	21s57	1s56	21s29	1s19	24s 8	0s44	23n32	0n 3	0n58	2s28	21s27	0s32	22n15
W 2	21 56	26 53	4 48	21 30	1 52	21 14	1 20	24 7	0 45	23 32	0 3	1 0	2 28	21 27	0 32	22 15
T 3	21 47	24 8	5 1	21 2	1 48	20 58	1 21	24 5	0 45	23 32	0 3	1 1	2 27	21 26	0 32	22 15
F 4	21 37	19 45	4 52	20 33	1 43	20 41	1 22	24 3	0 46	23 33	0 3	1 3	2 27	21 25	0 32	22 15
S 5	21 27	14 9	4 24	20 2	1 37	20 24	1 23	24 0	0 47	23 33	0 3	1 5	2 27	21 25	0 32	22 15
S 6	21 16	7 48	3 39	19 30	1 31	20 6	1 24	23 58	0 47	23 33	0 3	1 6	2 27	21 24	0 32	22 15
M 7	21 5	1 9	2 40	18 57	1 23	19 48	1 25	23 55	0 48	23 34	0 4	1 8	2 26	21 23	0 32	22 15
T 8	20 54	5s25	1 32	18 22	1 15	19 29	1 26	23 52	0 48	23 34	0 4	1 10	2 26	21 23	0 32	22 15
W 9	20 42	11 34	0 21	17 47	1 7	19 9	1 27	23 48	0 49	23 34	0 4	1 12	2 26	21 22	0 32	22 15
T 10	20 29	17 3	0s50	17 11	0 57	18 49	1 27	23 45	0 49	23 34	0 4	1 13	2 26	21 21	0 32	22 15
F 11	20 17	21 36	1 56	16 34	0 46	18 29	1 28	23 41	0 50	23 34	0 4	1 15	2 26	21 21	0 32	22 15
S 12	20 4	25 1	2 56	15 57	0 35	18 7	1 28	23 36	0 50	23 35	0 4	1 17	2 25	21 20	0 32	22 15
S 13	19 50	27 6	3 45	15 20	0 22	17 46	1 29	23 32	0 51	23 35	0 4	1 19	2 25	21 19	0 32	22 15
M14	19 36	27 46	4 23	14 44	0 9	17 24	1 29	23 27	0 51	23 35	0 5	1 21	2 25	21 19	0 32	22 15
T 15	19 22	27 0	4 47	14 8	0n 5	17 1	1 30	23 22	0 52	23 35	0 5	1 23	2 25	21 18	0 32	22 15
W16	19 8	24 57	4 56	13 33	0 19	16 38	1 30	23 17	0 52	23 35	0 5	1 25	2 24	21 17	0 32	22 15
T 17	18 53	21 47	4 58	13 0	0 35	16 14	1 30	23 11	0 53	23 36	0 5	1 27	2 24	21 17	0 32	22 15
F 18	18 38	17 44	4 40	12 29	0 51	15 50	1 30	23 5	0 53	23 36	0 5	1 29	2 24	21 16	0 32	22 15
S 19	18 22	13 2	4 12	12 0	1 7	15 26	1 30	22 59	0 54	23 36	0 5	1 31	2 24	21 15	0 32	22 15
S 20	18 6	7 53	3 33	11 34	1 24	15 1	1 30	22 53	0 54	23 36	0 5	1 33	2 24	21 15	0 32	22 15
M21	17 50	2 27	2 45	11 11	1 41	14 36	1 30	22 46	0 54	23 36	0 5	1 36	2 23	21 14	0 32	22 15
T 22	17 34	3n 5	1 50	10 52	1 58	14 10	1 30	22 40	0 55	23 36	0 6	1 38	2 23	21 13	0 32	22 15
W23	17 17	8 34	0 49	10 37	2 15	13 44	1 30	22 33	0 55	23 37	0 6	1 40	2 23	21 13	0 32	22 15
T 24	17 0	13 51	0n15	10 26	2 31	13 18	1 30	22 25	0 56	23 37	0 6	1 42	2 23	21 12	0 32	22 15
F 25	16 43	18 41	1 20	10 19	2 46	12 51	1 29	22 18	0 56	23 37	0 6	1 45	2 22	21 11	0 32	22 15
S 26	16 25	22 50	2 23	10 17	3 0	12 24	1 29	22 10	0 57	23 37	0 6	1 47	2 22	21 11	0 32	22 15
S 27	16 7	25 56	3 20	10 19	3 12	11 57	1 29	22 2	0 57	23 37	0 6	1 49	2 22	21 10	0 32	22 15
M28	15 49	27 39	4 8	10 25	3 23	11 29	1 28	21 53	0 58	23 37	0 6	1 51	2 22	21 9	0 32	22 15
T 29	15 30	27 37	4 43	10 35	3 32	11 1	1 28	21 45	0 58	23 37	0 6	1 54	2 22	21 9	0 32	22 15
W30	15 11	25 41	5 0	10 49	3 39	10 33	1 27	21 36	0 58	23 38	0 7	1 56	2 22	21 8	0 32	22 15
T 31	14s52	21n54	4n57	11s 5	3n43	10s 4	1s26	21s27	0s59	23n38	0n 7	1n59	2s21	21s 7	0s32	22n15

Julian Day Number = 2235695.5, Delta T = 07m39s

Ecliptic obliquity = 23°31'05, Nutation = - 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°29'45, Lahiri = 15°36'46 Julian Calendar 1 Jan. 1409 == Greg. Calendar 10 Jan. 1409

ASTRODIENST EPHEMERIS for the year 1409

geocentric

FEBRUARY 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 18 10	20°58'24	27°03'34	19°R39	8°H52	29°Z29	0°R14	10°Y32	28°Z12	24°R46	12°R28	2°R23	3°B31	10°H10	27°R18	F 1
S 2	9 22 6	21°58'52	12°07'50	18°W31	10° 7	0°W16	0°E11	10°38	28°15	24°II46	12°II27	2°B14	3°28	10°17	27°Q14	S 2
S 3	9 26 3	22°59'19	27°55	17°25	11°22	1° 3	0° 8	10°44	28°18	24°45	12°27	2° 7	3°25	10°23	27° 9	S 3
M 4	9 29 59	23°59'44	12°24	16°22	12°36	1°49	0° 6	10°50	28°22	24°44	12°27	2° 3	3°21	10°30	27° 4	M 4
T 5	9 33 56	25° 0'07	27° 3	15°23	13°51	2°36	0° 4	10°56	28°25	24°44	12°26	2°D 2	3°18	10°37	26°59	T 5
W 6	9 37 52	26° 0'30	11°M 0	14°30	15° 5	3°23	0° 2	11° 2	28°28	24°43	12°26	2° 2	3°15	10°43	26°55	W 6
T 7	9 41 49	27° 0'51	24°31	13°43	16°20	4°10	0° 0	11° 8	28°31	24°42	12°26	2°R 2	3°12	10°50	26°50	T 7
F 8	9 45 45	28° 1'10	7°A39	13° 3	17°34	4°56	29°II59	11°14	28°35	24°42	12°26	2° 2	3° 9	10°57	26°45	F 8
S 9	9 49 42	29° 1'29	20°28	12°30	18°49	5°43	29°58	11°20	28°38	24°41	12°26	2° 0	3° 6	11° 3	26°40	S 9
S 10	9 53 39	0°H 45	3°Z 1	12° 4	20° 3	6°30	29°56	11°27	28°41	24°41	12°25	1°55	3° 2	11°10	26°36	S 10
M 11	9 57 35	1° 2'00	15°22	11°45	21°18	7°17	29°55	11°33	28°44	24°40	12°25	1°47	2°59	11°17	26°31	M 11
T 12	10 1 32	2° 2'14	27°32	11°34	22°32	8° 3	29°55	11°40	28°47	24°40	12°25	1°38	2°56	11°23	26°26	T 12
W 13	10 5 28	3° 2'26	9°W36	11°D29	23°47	8°50	29°54	11°46	28°50	24°39	12°25	1°27	2°53	11°30	26°21	W 13
T 14	10 9 25	4° 2'36	21°33	11°31	25° 1	9°37	29°54	11°53	28°53	24°39	12°25	1°15	2°50	11°37	26°17	T 14
F 15	10 13 21	5° 2'44	3°H26	11°39	26°15	10°24	29°D54	11°59	28°56	24°39	12°25	1° 4	2°47	11°44	26°12	F 15
S 16	10 17 18	6° 2'50	15°17	11°53	27°30	11°11	29°54	12° 6	28°59	24°38	12°D25	0°54	2°43	11°50	26° 7	S 16
S 17	10 21 14	7° 2'55	27° 6	12°13	28°44	11°58	29°54	12°13	29° 2	24°38	12°25	0°46	2°40	11°57	26° 3	S 17
M 18	10 25 11	8° 2'57	8°Y56	12°37	29°58	12°45	29°54	12°19	29° 5	24°38	12°25	0°41	2°37	12° 4	25°58	M 18
T 19	10 29 8	9° 2'57	20°49	13° 7	1°Y12	13°31	29°55	12°26	29° 8	24°37	12°25	0°39	2°34	12°10	25°53	T 19
W 20	10 33 4	10° 2'55	2°B49	13°41	2°26	14°18	29°56	12°33	29°11	24°37	12°25	0°D38	2°31	12°17	25°49	W 20
T 21	10 37 1	11° 2'51	15° 0	14°20	3°40	15° 5	29°57	12°40	29°14	24°37	12°25	0°39	2°27	12°24	25°44	T 21
F 22	10 40 57	12° 2'45	27°25	15° 2	4°54	15°52	29°58	12°47	29°17	24°37	12°25	0°40	2°24	12°30	25°40	F 22
S 23	10 44 54	13° 2'37	10°II 9	15°48	6° 8	16°39	29°59	12°54	29°19	24°37	12°26	0°R41	2°21	12°37	25°35	S 23
S 24	10 48 50	14° 2'26	23°18	16°38	7°22	17°26	0°E 1	13° 1	29°22	24°37	12°26	0°41	2°18	12°44	25°31	S 24
M 25	10 52 47	15° 2'14	6°E53	17°30	8°36	18°13	0° 3	13° 8	29°25	24°D37	12°26	0°38	2°15	12°50	25°27	M 25
T 26	10 56 43	16° 1'59	20°57	18°26	9°50	19° 0	0° 5	13°15	29°28	24°37	12°26	0°34	2°12	12°57	25°22	T 26
W 27	11 0 40	17° 1'41	5°Q29	19°25	11° 4	19°46	0° 7	13°22	29°30	24°37	12°26	0°29	2° 8	13° 4	25°18	W 27
T 28	11 4 37	18°H 1'22	20°Q25	20°W26	12°Y18	20°W33	0°E10	13°Y29	29°Z33	24°II37	12°II27	0°B22	2° 5	13°H11	25°Q14	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s33	16n37	4n33	11s25	3n45	9s35	1s25	21s17	0s59	23n38	0n 7	2n 1	2s21	21s 7	0s32	22n15	1s10	13n55	8s31	12n20	12n44	11s36	6n13	6s37			
S 2	14 14	10 18	3 50	11 46	3 45	9 6	1 25	21 8	1 0	23 38	0 7	2 4	2 21	21 6	0 32	22 15	1 10	13 55	8 31	12 17	12 43	11 33	6 15	6 37			
S 3	13 54	3 26	2 51	12 8	3 42	8 37	1 24	20 58	1 0	23 38	0 7	2 6	2 21	21 5	0 32	22 15	1 10	13 55	8 31	12 15	12 42	11 30	6 17	6 37			
M 4	13 34	3s29	1 41	12 31	3 38	8 7	1 23	20 48	1 1	23 38	0 7	2 9	2 21	21 5	0 32	22 15	1 10	13 55	8 30	12 14	12 40	11 27	6 18	6 37			
T 5	13 14	10 3	0 26	12 54	3 31	7 38	1 22	20 38	1 1	23 38	0 7	2 11	2 20	21 4	0 32	22 15	1 10	13 56	8 30	12 13	12 39	11 24	6 20	6 37			
W 6	12 53	15 56	0s48	13 18	3 23	7 8	1 20	20 27	1 1	23 38	0 7	2 14	2 20	21 3	0 32	22 15	1 10	13 56	8 30	12 13	12 38	11 21	6 22	6 37			
T 7	12 33	20 51	1 57	13 40	3 14	6 38	1 19	20 17	1 2	23 39	0 7	2 16	2 20	21 3	0 32	22 15	1 10	13 56	8 30	12 13	12 37	11 18	6 23	6 37			
F 8	12 12	24 35	2 58	14 2	3 3	6 7	1 18	20 6	1 2	23 39	0 8	2 19	2 20	21 2	0 32	22 15	1 10	13 56	8 29	12 13	12 36	11 15	6 25	6 36			
S 9	11 51	26 58	3 48	14 22	2 51	5 37	1 17	19 55	1 2	23 39	0 8	2 21	2 20	21 1	0 32	22 15	1 10	13 56	8 29	12 12	12 35	11 12	6 27	6 36			
S 10	11 30	27 55	4 26	14 41	2 39	5 6	1 15	19 43	1 3	23 39	0 8	2 24	2 20	21 1	0 32	22 15	1 10	13 57	8 29	12 11	12 34	11 9	6 29	6 36			
M11	11 9	27 27	4 51	14 59	2 26	4 36	1 14	19 32	1 3	23 39	0 8	2 27	2 20	21 0	0 32	22 15	1 10	13 57	8 29	12 8	12 33	11 6	6 31	6 36			
T 12	10 47	25 40	5 3	15 14	2 13	4 5	1 12	19 20	1 4	23 39	0 8	2 29	2 19	21 0	0 32	22 15	1 10	13 57	8 29	12 5	12 32	11 2	6 32	6 36			
W13	10 25	22 44	5 1	15 29	2 0	3 34	1 11	19 8	1 4	23 39	0 8	2 32	2 19	20 59	0 32	22 15	1 10	13 57	8 28	12 1	12 31	10 59	6 34	6 35			
T 14	10 4	18 52	4 45	15 41	1 46	3 3	1 9	18 56	1 4	23 39	0 8	2 35	2 19	20 58	0 32	22 15	1 10	13 58	8 28	11 57	12 30	10 56	6 36	6 35			
F 15	9 42	14 16	4 17	15 52	1 32	2 32	1 7	18 44	1 5	23 39	0 8	2 37	2 19	20 58	0 32	22 15	1 9	13 58	8 28	11 53	12 29	10 53	6 38	6 35			
S 16	9 19	9 10	3 38	16 1	1 19	2 0	1 6	18 31	1 5	23 39	0 8	2 40	2 19	20 57	0 32	22 15	1 9	13 58	8 28	11 49	12 27	10 50	6 40	6 34			
S 17	8 57	3 45	2 50	16 8	1 6	1 29	1 4	18 18	1 5	23 40	0 8	2 43	2 19	20 57	0 32	22 15	1 9	13 58	8 27	11 47	12 26	10 47	6 42	6 34			
M18	8 35	1n48	1 54	16 14	0 53	0 58	1 2	18 5	1 6	23 40	0 9	2 46	2 19	20 56	0 32	22 15	1 9	13 58	8 27	11 45	12 25	10 44	6 43	6 34			
T 19	8 12	7 21	0 53	16 18	0 40	0 26	1 0	17 52	1 6	23 40	0 9	2 48	2 18	20 55	0 32	22 15	1 9	13 59	8 27	11 44	12 24	10 41	6 45	6 33			
W20	7 50	12 41	0n12	16 20	0 28	0n 5	0 58	17 39	1 6	23 40	0 9	2 51	2 18	20 55	0 32	22 15	1 9	13 59	8 27	11 44	12 23	10 38	6 47	6 33			
T 21	7 27	17 37	1 17	16 20	0 16	0 36	0 56	17 25	1 7	23 40	0 9	2 54	2 18	20 54	0 32	22 15	1 9	13 59	8 26	11 44	12 22	10 35	6 49	6 33			
F 22	7 4	21 55	2 19	16 19	0 4	1 8	0 54	17 12	1 7	23 40	0 9	2 57	2 18	20 54	0 32	22 15	1 9	13 59	8 26	11 45	12 21	10 32	6 51	6 32			
S 23	6 41	25 17	3 17	16 16	0s 7	1 39	0 52	16 58	1 7	23 40	0 9	3 0	2 18	20 53	0 32	22 15	1 9	14 0	8 26	11 45	12 20	10 28	6 53	6 32			
S 24	6 18	27 26	4 6	16 11	0 18	2 10	0 50	16 44	1 7	23 40	0 9	3 2	2 18	20 53	0 32	22 15	1 9	14 0	8 26	11 45	12 19	10 25	6 54	6 31			
M25	5 55	28 3	4 43	16 5	0 28	2 42	0 48	16 30	1 8	23 40	0 9	3 5	2 18	20 52	0 32	22 16	1 9	14 0	8 26	11 44	12 18	10 22	6 56	6 31			
T 26	5 32	26 54	5 5	15 58	0 38	3 13	0 45	16 15	1 8	23 40	0 9	3 8	2 18	20 51	0 32	22 16	1 9	14 0	8 25	11 43	12 16	10 19	6 58	6 31			
W27	5 8	23 56	5 8	15 48	0 48	3 44	0 43	16 1	1 8	23 41	0 9	3 11	2 17	20 51	0 32	22 16	1 9	14 1	8 25	11 41	12 15	10 16	7 0	6 30			
T 28	4s45	19n19	4n50	15s38	0s57	4n15	0s41	15s46	1s 8	23n41	0n10	3n14	2s17	20s50	0s32	22n16	1s 9	14n 1	8s25	11n38	12n14	10s13	7n 2	6s30			

Julian Day Number = 2235726.5, Delta T = 07m38s

Ecliptic obliquity = 23°31'06, Nutation = - 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°29'50, Lahiri = 15°36'50 Julian Calendar 1 Feb. 1409 == Greg. Calendar 10 Feb. 1409

ASTRODIENST EPHEMERIS for the year 1409
geocentric

MARCH 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 8 33	19♈ 1'00	5♏37	21♈30	13♏32	21♈20	0♏12	13♏36	29♏35	24♏37	12♏27	0♏16	2♏2	13♏17	25♏10	F 1
S 2	11 12 30	20° 0'35	20°55	22°36	14°45	22° 7	0°15	13°44	29°38	24°37	12°27	0°11	1°59	13°24	25°06	S 2
S 3	11 16 26	21° 0'09	6♌8	23°45	15°59	22°54	0°18	13°51	29°40	24°37	12°27	0° 7	1°56	13°31	25° 2	S 3
M 4	11 20 23	21°59'41	21° 7	24°56	17°13	23°41	0°21	13°58	29°43	24°38	12°28	0° 5	1°52	13°37	24°58	M 4
T 5	11 24 19	22°59'11	5♏43	26° 8	18°26	24°28	0°24	14° 5	29°45	24°38	12°28	0°D 5	1°49	13°44	24°54	T 5
W 6	11 28 16	23°58'40	19°53	27°23	19°40	25°15	0°28	14°13	29°48	24°38	12°29	0° 6	1°46	13°51	24°50	W 6
T 7	11 32 12	24°58'06	3♏36	28°40	20°53	26° 2	0°31	14°20	29°50	24°39	12°29	0° 7	1°43	13°57	24°46	T 7
F 8	11 36 9	25°57'31	16°52	29°58	22° 7	26°49	0°35	14°28	29°53	24°39	12°29	0° 8	1°40	14° 4	24°43	F 8
S 9	11 40 6	26°56'54	29°44	1♏19	23°20	27°35	0°39	14°35	29°55	24°39	12°30	0°R 9	1°37	14°11	24°39	S 9
S 10	11 44 2	27°56'15	12♏17	2°41	24°33	28°22	0°43	14°42	29°57	24°40	12°30	0° 8	1°33	14°17	24°36	S 10
M 11	11 47 59	28°55'35	24°33	4° 4	25°47	29° 9	0°48	14°50	29°59	24°40	12°31	0° 5	1°30	14°24	24°32	M 11
T 12	11 51 55	29°54'52	6♏39	5°30	27° 0	29°56	0°52	14°57	0♏1	24°41	12°31	0° 1	1°27	14°31	24°29	T 12
W 13	11 55 52	0♏54'08	18°35	6°57	28°13	0♏43	0°57	15° 5	0° 4	24°41	12°32	29°Y57	1°24	14°37	24°26	W 13
T 14	11 59 48	1°53'21	0♏27	8°25	29°26	1°30	1° 2	15°12	0° 6	24°42	12°32	29°52	1°21	14°44	24°22	T 14
F 15	12 3 45	2°52'33	12°17	9°55	0♏39	2°17	1° 7	15°20	0° 8	24°42	12°33	29°47	1°18	14°51	24°19	F 15
S 16	12 7 41	3°51'43	24° 6	11°26	1°53	3° 3	1°12	15°27	0°10	24°43	12°34	29°42	1°14	14°58	24°16	S 16
S 17	12 11 38	4°50'51	5♏58	12°59	3° 6	3°50	1°17	15°35	0°12	24°44	12°34	29°39	1°11	15° 4	24°13	S 17
M 18	12 15 34	5°49'56	17°54	14°34	4°19	4°37	1°23	15°42	0°14	24°44	12°35	29°37	1° 8	15°11	24°10	M 18
T 19	12 19 31	6°49'00	29°55	16°10	5°31	5°24	1°29	15°50	0°16	24°45	12°35	29°D37	1° 5	15°18	24° 8	T 19
W 20	12 23 28	7°48'01	12♏5	17°47	6°44	6°11	1°34	15°58	0°17	24°46	12°36	29°37	1° 2	15°24	24° 5	W 20
T 21	12 27 24	8°47'01	24°25	19°26	7°57	6°57	1°40	16° 5	0°19	24°46	12°37	29°39	0°58	15°31	24° 2	T 21
F 22	12 31 21	9°45'58	6♏58	21° 7	9°10	7°44	1°46	16°13	0°21	24°47	12°38	29°40	0°55	15°38	24° 0	F 22
S 23	12 35 17	10°44'53	19°47	22°49	10°23	8°31	1°53	16°21	0°23	24°48	12°38	29°42	0°52	15°44	23°58	S 23
S 24	12 39 14	11°43'45	2♏56	24°32	11°35	9°17	1°59	16°28	0°24	24°49	12°39	29°42	0°49	15°51	23°55	S 24
M 25	12 43 10	12°42'35	16°27	26°17	12°48	10° 4	2° 6	16°36	0°26	24°50	12°40	29°R43	0°46	15°58	23°53	M 25
T 26	12 47 7	13°41'23	0♏20	28° 4	14° 0	10°51	2°13	16°43	0°28	24°51	12°41	29°42	0°43	16° 4	23°51	T 26
W 27	12 51 3	14°40'09	14°37	29°52	15°13	11°37	2°19	16°51	0°29	24°52	12°41	29°41	0°39	16°11	23°49	W 27
T 28	12 55 0	15°38'52	29°15	1°Y41	16°25	12°24	2°26	16°59	0°31	24°53	12°42	29°39	0°36	16°18	23°47	T 28
F 29	12 58 57	16°37'33	14♏8	3°33	17°37	13°11	2°34	17° 6	0°32	24°54	12°43	29°37	0°33	16°24	23°46	F 29
S 30	13 2 53	17°36'12	29°11	5°25	18°50	13°57	2°41	17°14	0°33	24°55	12°44	29°36	0°30	16°31	23°44	S 30
S 31	13 6 50	18°Y34'49	14♏14	7°Y19	20♏2	14°X44	2♏48	17°Y22	0♏35	24♏56	12♏45	29°Y35	0♏27	16°X38	23°042	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	4s22	13n24	4n13	15s25	1s 6	4n46	0s38	15s31	1s 9	23n41	0n10	3n17	2s17	20s50	0s32	22n16	1s 9	14n 1	8s25	11n36	12n13	10s10	7n 4	6s29	
S 2	3 58	6 37	3 16	15 12	1 14	5 17	0 36	15 16	1 9	23 41	0 10	3 20	2 17	20 49	0 32	22 16	1 9	14 1	8 24	11 34	12 12	10 7	7 5	6 29	
S 3	3 35	0s31	2 6	14 56	1 22	5 48	0 33	15 1	1 9	23 41	0 10	3 22	2 17	20 49	0 32	22 16	1 9	14 2	8 24	11 33	12 11	10 3	7 7	6 28	
M 4	3 11	7 31	0 49	14 39	1 29	6 18	0 31	14 46	1 9	23 41	0 10	3 25	2 17	20 48	0 32	22 16	1 9	14 2	8 24	11 32	12 10	10 0	7 9	6 28	
T 5	2 48	13 57	0s31	14 21	1 36	6 49	0 28	14 30	1 10	23 41	0 10	3 28	2 17	20 48	0 33	22 16	1 9	14 2	8 24	11 32	12 9	9 57	7 11	6 27	
W 6	2 24	19 28	1 46	14 2	1 43	7 19	0 26	14 15	1 10	23 41	0 10	3 31	2 17	20 47	0 33	22 16	1 9	14 3	8 23	11 33	12 8	9 54	7 13	6 26	
T 7	2 0	23 46	2 53	13 40	1 49	7 50	0 23	13 59	1 10	23 41	0 10	3 34	2 17	20 47	0 33	22 16	1 9	14 3	8 23	11 33	12 7	9 51	7 14	6 26	
F 8	1 37	26 39	3 48	13 18	1 54	8 20	0 20	13 43	1 10	23 41	0 10	3 37	2 17	20 46	0 33	22 16	1 8	14 3	8 23	11 34	12 5	9 48	7 16	6 25	
S 9	1 13	28 1	4 30	12 54	1 59	8 49	0 18	13 27	1 10	23 41	0 10	3 40	2 17	20 46	0 33	22 16	1 8	14 3	8 23	11 34	12 4	9 45	7 18	6 25	
S 10	0 49	27 53	4 57	12 29	2 4	9 19	0 15	13 11	1 11	23 41	0 10	3 43	2 17	20 46	0 33	22 16	1 8	14 4	8 23	11 33	12 3	9 41	7 20	6 24	
M 11	0 26	26 23	5 11	12 2	2 8	9 48	0 12	12 55	1 11	23 41	0 10	3 46	2 17	20 45	0 33	22 16	1 8	14 4	8 22	11 32	12 2	9 38	7 21	6 23	
T 12	0 2	23 40	5 10	11 34	2 12	10 18	0 9	12 38	1 11	23 42	0 11	3 49	2 16	20 45	0 33	22 16	1 8	14 4	8 22	11 31	12 1	9 35	7 23	6 23	
W 13	0n22	19 59	4 56	11 5	2 15	10 47	0 6	12 22	1 11	23 42	0 11	3 52	2 16	20 44	0 33	22 16	1 8	14 5	8 22	11 29	12 0	9 32	7 25	6 22	
T 14	0 45	15 32	4 29	10 34	2 18	11 15	0 4	12 5	1 11	23 42	0 11	3 55	2 16	20 44	0 33	22 17	1 8	14 5	8 22	11 28	11 59	9 29	7 26	6 21	
F 15	1 9	10 32	3 51	10 2	2 20	11 44	0 1	11 49	1 12	23 42	0 11	3 58	2 16	20 43	0 33	22 17	1 8	14 5	8 21	11 26	11 58	9 26	7 28	6 21	
S 16	1 32	5 9	3 3	9 29	2 22	12 12	0n 2	11 32	1 12	23 42	0 11	4 1	2 16	20 43	0 33	22 17	1 8	14 5	8 21	11 24	11 57	9 22	7 30	6 20	
S 17	1 56	0n27	2 6	8 55	2 23	12 40	0 5	11 15	1 12	23 42	0 11	4 4	2 16	20 43	0 33	22 17	1 8	14 6	8 21	11 23	11 56	9 19	7 31	6 19	
M 18	2 19	6 3	1 4	8 19	2 24	13 7	0 8	10 58	1 12	23 42	0 11	4 7	2 16	20 42	0 33	22 17	1 8	14 6	8 21	11 23	11 54	9 16	7 33	6 19	
T 19	2 43	11 30	0n 2	7 42	2 25	13 35	0 11	10 41	1 12	23 42	0 11	4 9	2 16	20 42	0 33	22 17	1 8	14 6	8 21	11 22	11 53	9 13	7 34	6 18	
W 20	3 6	16 35	1 8	7 3	2 24	14 2	0 14	10 24	1 12	23 42	0 11	4 12	2 16	20 42	0 33	22 17	1 8	14 7	8 20	11 23	11 52	9 10	7 36	6 17	
T 21	3 30	21 5	2 13	6 24	2 24	14 28	0 17	10 6	1 12	23 42	0 11	4 15	2 16	20 41	0 33	22 17	1 8	14 7	8 20	11 23	11 51	9 7	7 37	6 17	
F 22	3 53	24 42	3 12	5 43	2 23	14 55	0 20	9 49	1 12	23 42	0 11	4 18	2 16	20 41	0 33	22 17	1 8	14 7	8 20	11 24	11 50	9 3	7 39	6 16	
S 23	4 16	27 9	4 3	5 1	2 21	15 21	0 23	9 31	1 12	23 42	0 11	4 21	2 16	20 40	0 33	22 17	1 8	14 7	8 20	11 24	11 49	9 0	7 40	6 15	
S 24	4 39	28 11	4 42	4 18	2 19	15 46	0 26	9 14	1 13	23 42	0 12	4 24	2 16	20 40	0 33	22 17	1 8	14 8	8 20	11 24	11 48	8 57	7 42	6 14	
M 25	5 2	27 35	5 8	3 34	2 16	16 11	0 29	8 56	1 13	23 42	0 12	4 27	2 16	20 40	0 33	22 17	1 8	14 8	8 19	11 24	11 47	8 54	7 43	6 14	
T 26	5 25	25 17	5 16	2 49	2 13	16 36	0 32	8 39	1 13	23 42	0 12	4 30	2 16	20 40	0 33	22 17	1 8	14 8	8 19	11 24	11 46	8 51	7 45	6 13	
W 27	5 48	21 22	5 5	2 2	2 10	17 0	0 35	8 21	1 13	23 42	0 12	4 33	2 16	20 39	0 33	22 18	1 8	14 9	8 19	11 24	11 44	8 47	7 46	6 12	
T 28	6 11	16 4	4 35	1 15	2 6	17 24	0 38	8 3	1 13	23 42	0 12	4 36	2 16	20 39	0 33	22 18	1 8	14 9	8 19	11 23	11 43	8 44	7 47	6 11	
F 29	6 33	9 44	3 46	0 26	2 1	17 48	0 41	7 45	1 13	23 42	0 12	4 39	2 16	20 39	0 33	22 18	1 7	14 9	8 19	11 23	11 42	8 41	7 49	6 11	
S 30	6 56	2 47	2 41	0n23	1 56	18 11	0 44	7 27	1 13	23 41	0 12	4 42	2 16	20 38	0 33	22 18	1 7	14 10	8 18	11 22	11 41	8 38	7 50	6 10	
S 31	7n18	4s20	1n24	1n14	1s50	18n33	0n47	7s 9	1s13	23n41	0n12	4n45	2s16	20s38	0s33	22n18	1s 7	14n10	8s18	11n22	11n40	8s35	7n51	6s 9	

ASTRODIENST EPHEMERIS for the year 1409

geocentric

APRIL 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 10 46	19°33'23	29°48' 8	9°15'15	21°18'14	15°30'30	2°56'56	17°29'29	0°36'36	24°57'57	12°46'46	29°D35	0°8'24	16°44'44	23°R41	M 1
T 2	13 14 43	20°31'56	13°46'46	11°13'13	22°26'26	16°17'17	3° 4' 4	17°37'37	0°37'37	24°58'58	12°47'47	29°Y35	0°20'20	16°51'51	23°Q40	T 2
W 3	13 18 39	21°30'27	28° 2' 2	13°11'11	23°38'38	17° 3' 3	3°11'11	17°45'45	0°38'38	25° 0' 0	12°48'48	29°36'36	0°17'17	16°58'58	23°38'38	W 3
T 4	13 22 36	22°28'57	11°53'53	15°12'12	24°50'50	17°50'50	3°19'19	17°52'52	0°40'40	25° 1' 1	12°48'48	29°36'36	0°14'14	17° 5' 5	23°37'37	T 4
F 5	13 26 32	23°27'24	25°18'18	17°13'13	26° 2' 2	18°36'36	3°27'27	18° 0' 0	0°41'41	25° 2' 2	12°49'49	29°37'37	0°11'11	17°11'11	23°36'36	F 5
S 6	13 30 29	24°25'51	8°31'17	19°17'17	27°14'14	19°23'23	3°36'36	18° 8' 8	0°42'42	25° 3' 3	12°50'50	29°37'37	0° 8' 8	17°18'18	23°35'35	S 6
S 7	13 34 26	25°24'15	20°54'54	21°21'21	28°25'25	20° 9' 9	3°44'44	18°15'15	0°43'43	25° 5' 5	12°51'51	29°R38	0° 4' 4	17°25'25	23°35'35	S 7
M 8	13 38 22	26°22'38	3°31'13	23°27'27	29°37'37	20°55'55	3°52'52	18°23'23	0°44'44	25° 6' 6	12°52'52	29°38'38	0° 1' 1	17°31'31	23°34'34	M 8
T 9	13 42 19	27°20'59	15°18'18	25°33'33	0°11'49	21°42'42	4° 1' 1	18°30'30	0°45'45	25° 7' 7	12°53'53	29°38'38	29°Y58	17°38'38	23°33'33	T 9
W10	13 46 15	28°19'19	27°14'14	27°41'41	2° 0' 0	22°28'28	4°10'10	18°38'38	0°45'45	25° 9' 9	12°55'55	29°37'37	29°55'55	17°45'45	23°33'33	W10
T 11	13 50 12	29°17'37	9°4' 4	29°49'49	3°11'11	23°14'14	4°19'19	18°46'46	0°46'46	25°10'10	12°56'56	29°D37	29°52'52	17°51'51	23°33'33	T 11
F 12	13 54 8	0°15'53	20°53'53	1°58'58	4°23'23	24° 1' 1	4°27'27	18°53'53	0°47'47	25°11'11	12°57'57	29°37'37	29°49'49	17°58'58	23°32'32	F 12
S 13	13 58 5	1°14'08	2°Y44	4° 8' 8	5°34'34	24°47'47	4°37'37	19° 1' 1	0°48'48	25°13'13	12°58'58	29°37'37	29°45'45	18° 5' 5	23°32'32	S 13
S 14	14 2 1	2°12'21	14°40'40	6°17'17	6°45'45	25°33'33	4°46'46	19° 8' 8	0°48'48	25°14'14	12°59'59	29°38'38	29°42'42	18°11'11	23°D32	S 14
M15	14 5 58	3°10'32	26°44'44	8°26'26	7°57'57	26°19'19	4°55'55	19°16'16	0°49'49	25°16'16	13° 0' 0	29°R38	29°39'39	18°18'18	23°32'32	M15
T 16	14 9 55	4° 8'42	8°58'58	10°35'35	9° 8' 8	27° 5' 5	5° 4' 4	19°23'23	0°50'50	25°17'17	13° 1' 1	29°38'38	29°36'36	18°25'25	23°33'33	T 16
W17	14 13 51	5° 6'50	21°22'22	12°43'43	10°19'19	27°51'51	5°14'14	19°31'31	0°50'50	25°19'19	13° 2' 2	29°37'37	29°33'33	18°31'31	23°33'33	W17
T 18	14 17 48	6° 4'57	3°11'11	14°49'49	11°30'30	28°37'37	5°23'23	19°38'38	0°51'51	25°20'20	13° 3' 3	29°37'37	29°29'29	18°38'38	23°33'33	T 18
F 19	14 21 44	7° 3'01	16°49'49	16°55'55	12°41'41	29°23'23	5°33'33	19°46'46	0°51'51	25°22'22	13° 4' 4	29°36'36	29°26'26	18°45'45	23°34'34	F 19
S 20	14 25 41	8° 1'04	29°54'54	18°58'58	13°51'51	0°Y 9	5°43'43	19°53'53	0°51'51	25°24'24	13° 6' 6	29°35'35	29°23'23	18°51'51	23°35'35	S 20
S 21	14 29 37	8°59'05	13°51'51	21° 0' 0	15° 2' 2	0°55'55	5°53'53	20° 0' 0	0°52'52	25°25'25	13° 7' 7	29°34'34	29°20'20	18°58'58	23°35'35	S 21
M22	14 33 34	9°57'04	26°49'49	23° 0' 0	16°13'13	1°41'41	6° 3' 3	20° 8' 8	0°52'52	25°27'27	13° 8' 8	29°33'33	29°17'17	19° 5' 5	23°36'36	M22
T 23	14 37 30	10°55'01	10°Q40	24°57'57	17°23'23	2°27'27	6°13'13	20°15'15	0°52'52	25°29'29	13° 9' 9	29°D33	29°14'14	19°11'11	23°37'37	T 23
W24	14 41 27	11°52'56	24°46'46	26°52'52	18°34'34	3°13'13	6°23'23	20°23'23	0°52'52	25°30'30	13°10'10	29°33'33	29°10'10	19°18'18	23°38'38	W24
T 25	14 45 24	12°50'49	9°11'11	28°44'44	19°44'44	3°58'58	6°33'33	20°30'30	0°52'52	25°32'32	13°12'12	29°34'34	29° 7' 7	19°25'25	23°40'40	T 25
F 26	14 49 20	13°48'41	23°37'37	0°11'33	20°54'54	4°44'44	6°44'44	20°37'37	0°53'53	25°34'34	13°13'13	29°35'35	29° 4' 4	19°31'31	23°41'41	F 26
S 27	14 53 17	14°46'30	8°41'15	2°19'19	22° 4' 4	5°30'30	6°54'54	20°44'44	0°R53	25°36'36	13°14'14	29°36'36	29° 1' 1	19°38'38	23°43'43	S 27
S 28	14 57 13	15°44'18	22°55'55	4° 1' 1	23°14'14	6°15'15	7° 5' 5	20°52'52	0°52'52	25°37'37	13°15'15	29°R37	28°58'58	19°45'45	23°44'44	S 28
M29	15 1 10	16°42'04	7°11'31	5°41'41	24°24'24	7° 1' 1	7°15'15	20°59'59	0°52'52	25°39'39	13°17'17	29°37'37	28°55'55	19°52'52	23°46'46	M29
T 30	15 5 6	17°39'49	21°11'55	7°11'17	25°11'34	7°Y47	7°56'56	21°Y 6	0°52'52	25°41'41	13°18'18	29°Y36	28°Y51	19°Y58	23°Q48	T 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	7n41	11s10	0n 2	2n 5	1s44	18n56	0n50	6s51	1s13	23n41	0n12	4n48	2s16	20s38	0s33	22n18
T 2	8 3	17 16	1s18	2 58	1 37	19 17	0 53	6 33	1 13	23 41	0 12	4 51	2 16	20 38	0 33	22 18
W 3	8 25	22 15	2 31	3 51	1 30	19 38	0 56	6 15	1 13	23 41	0 12	4 53	2 16	20 37	0 33	22 18
T 4	8 47	25 49	3 34	4 44	1 22	19 59	0 58	5 57	1 13	23 41	0 12	4 56	2 16	20 37	0 33	22 18
F 5	9 8	27 48	4 22	5 39	1 14	20 19	1 1	5 38	1 13	23 41	0 12	4 59	2 16	20 37	0 33	22 18
S 6	9 30	28 11	4 56	6 34	1 6	20 39	1 4	5 20	1 13	23 41	0 13	5 2	2 16	20 37	0 34	22 18
S 7	9 51	27 3	5 14	7 29	0 57	20 58	1 7	5 2	1 13	23 41	0 13	5 5	2 16	20 37	0 34	22 19
M 8	10 13	24 38	5 17	8 24	0 47	21 16	1 10	4 43	1 13	23 40	0 13	5 8	2 16	20 36	0 34	22 19
T 9	10 34	21 9	5 6	9 20	0 38	21 34	1 13	4 25	1 13	23 40	0 13	5 11	2 16	20 36	0 34	22 19
W10	10 55	16 52	4 41	10 15	0 28	21 52	1 15	4 7	1 13	23 40	0 13	5 14	2 16	20 36	0 34	22 19
T 11	11 16	11 59	4 5	11 11	0 17	22 9	1 18	3 48	1 13	23 40	0 13	5 16	2 16	20 36	0 34	22 19
F 12	11 36	6 40	3 19	12 5	0 7	22 25	1 21	3 30	1 13	23 40	0 13	5 19	2 16	20 36	0 34	22 19
S 13	11 57	1 6	2 24	13 0	0n 4	22 40	1 24	3 11	1 13	23 39	0 13	5 22	2 16	20 36	0 34	22 19
S 14	12 17	4n32	1 22	13 53	0 14	22 55	1 26	2 53	1 12	23 39	0 13	5 25	2 16	20 36	0 34	22 19
M15	12 37	10 6	0 16	14 46	0 25	23 10	1 29	2 34	1 12	23 39	0 13	5 28	2 16	20 36	0 34	22 19
T 16	12 57	15 21	0n52	15 37	0 36	23 24	1 31	2 16	1 12	23 39	0 13	5 31	2 16	20 35	0 34	22 19
W17	13 16	20 3	1 58	16 26	0 46	23 37	1 34	1 57	1 12	23 38	0 13	5 33	2 16	20 35	0 34	22 19
T 18	13 36	23 57	2 59	17 14	0 57	23 49	1 36	1 39	1 12	23 38	0 13	5 36	2 16	20 35	0 34	22 20
F 19	13 55	26 43	3 53	18 0	1 6	24 1	1 39	1 21	1 12	23 38	0 13	5 39	2 17	20 35	0 34	22 20
S 20	14 14	28 6	4 35	18 44	1 16	24 13	1 41	1 2	1 12	23 37	0 14	5 42	2 17	20 35	0 34	22 20
S 21	14 32	27 54	5 4	19 26	1 25	24 23	1 43	0 44	1 12	23 37	0 14	5 44	2 17	20 35	0 34	22 20
M22	14 51	26 2	5 16	20 6	1 34	24 33	1 46	0 25	1 11	23 36	0 14	5 47	2 17	20 35	0 34	22 20
T 23	15 9	22 36	5 11	20 43	1 42	24 42	1 48	0 7	1 11	23 36	0 14	5 50	2 17	20 35	0 34	22 20
W24	15 27	17 48	4 47	21 18	1 49	24 51	1 50	0n12	1 11	23 36	0 14	5 52	2 17	20 35	0 34	22 20
T 25	15 45	11 57	4 4	21 50	1 56	24 59	1 52	0 30	1 11	23 35	0 14	5 55	2 17	20 35	0 34	22 20
F 26	16 2	5 23	3 6	22 19	2 2	25 6	1 54	0 48	1 11	23 35	0 14	5 58	2 17	20 35	0 34	22 20
S 27	16 19	1s31	1 55	22 47	2 8	25 13	1 56	1 7	1 11	23 34	0 14	6 0	2 17	20 35	0 34	22 20
S 28	16 36	8 22	0 37	23 11	2 12	25 18	1 58	1 25	1 10	23 34	0 14	6 3	2 17	20 35	0 34	22 20
M29	16 53	14 45	0s44	23 33	2 16	25 24	2 0	1 43	1 10	23 33	0 14	6 6	2 17	20 35	0 34	22 21
T 30	17n 9	20s14	2s 0	23n53	2n19	25n28	2n 1	2n 2	1s10	23n33	0n14	6n 8	2s17	20s35	0s34	22n21

Julian Day Number = 2235785.5, Delta T = 07m38s

Ecliptic obliquity = 23°31'06, Nutation = - 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°29'58, Lahiri = 15°36'58 Julian Calendar 1 Apr. 1409 == Greg. Calendar 10 Apr. 1409

ASTRODIENST EPHEMERIS for the year 1409

geocentric

MAY 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 9 3	18°37'33	6°4' 4	8°11'50	26°11'44	8°32' 7	7°53' 7	21°13' 1	0°52' 5	25°43' 13	13°19' 29	29°34' 28	28°48' 20	20°12' 23	23°51' 23	W 1
T 2	15 12 59	19°35'15	19°52' 4	10°19' 27	27°53' 9	9°18' 7	7°48' 21	21°20' 0	0°52' 25	25°45' 13	13°21' 29	29°31' 28	28°45' 20	20°12' 23	23°51' 23	T 2
F 3	15 16 56	20°32'57	3°18' 3	11°45' 29	29° 3	10° 3	7°59' 21	21°27' 0	0°52' 25	25°47' 13	13°22' 29	29°28' 28	28°42' 20	20°18' 23	23°54' 23	F 3
S 4	15 20 53	21°30'37	16°21' 8	13° 8	0°52' 12	10°48' 8	8°10' 21	21°34' 0	0°51' 25	25°49' 13	13°23' 29	29°25' 28	28°39' 20	20°25' 23	23°56' 23	S 4
S 5	15 24 49	22°28'16	29° 1	14°27' 1	1°22' 11	11°34' 8	8°21' 21	21°41' 0	0°51' 25	25°50' 13	13°25' 29	29°23' 28	28°35' 20	20°32' 23	23°58' 23	S 5
M 6	15 28 46	23°25'53	11°23' 23	15°42' 2	2°31' 12	12°19' 8	8°32' 21	21°48' 0	0°50' 25	25°52' 13	13°26' 29	29°21' 28	28°32' 20	20°38' 24	23° 1	M 6
T 7	15 32 42	24°23'30	23°30' 2	16°54' 3	3°40' 13	13° 4	8°43' 21	21°55' 0	0°50' 25	25°54' 13	13°27' 29	29°D21	28°29' 20	20°45' 24	23° 3	T 7
W 8	15 36 39	25°21'06	5°26' 18	18° 2	4°49' 13	13°49' 8	8°55' 22	2° 2	0°49' 25	25°56' 13	13°29' 29	29°21' 28	28°26' 20	20°52' 24	23° 6	W 8
T 9	15 40 35	26°18'41	17°17' 19	19° 6	5°58' 14	13°35' 9	9° 6	22° 9	0°49' 25	25°58' 13	13°30' 29	29°22' 28	28°23' 20	20°58' 24	23° 9	T 9
F 10	15 44 32	27°16'15	29° 7	20° 6	7° 7	15°20' 9	9°17' 22	21°15' 0	0°48' 26	26° 0	13°31' 29	29°24' 28	28°20' 21	21° 5	24°11' 24	F 10
S 11	15 48 28	28°13'48	11°17' 0	21° 3	8°15' 16	16° 5	9°29' 22	22°22' 0	0°48' 26	26° 2	13°33' 29	29°26' 28	28°16' 21	21°12' 24	24°14' 24	S 11
S 12	15 52 25	29°11'20	23° 2	21°55' 9	9°24' 16	16°50' 9	9°41' 22	22°29' 0	0°47' 26	26° 4	13°34' 29	29°27' 28	28°13' 21	21°18' 24	24°17' 24	S 12
M13	15 56 22	0°11' 8	5°15' 22	22°44' 10	10°32' 17	17°35' 9	9°52' 22	22°35' 0	0°46' 26	26° 6	13°35' 29	29°R27	28°10' 21	21°25' 24	24°21' 24	M13
T14	16 0 18	1° 6'21	17°41' 23	23°28' 11	11°41' 18	18°20' 10	10° 4	22°42' 0	0°45' 26	26° 8	13°37' 29	29°25' 28	28° 7	21°32' 24	24°24' 24	T14
W15	16 4 15	2° 3'50	0°11' 23	24° 8	12°49' 19	19° 4	10°16' 22	22°49' 0	0°45' 26	26°11' 13	13°38' 29	29°22' 28	28° 4	21°38' 24	24°27' 24	W15
T16	16 8 11	3° 1'19	13°21' 24	24°44' 13	13°57' 19	19°49' 10	10°28' 22	22°55' 0	0°44' 26	26°13' 13	13°39' 29	29°18' 28	28° 1	21°45' 24	24°31' 24	T16
F17	16 12 8	3°58'46	26°34' 25	15° 5	20°34' 10	10°40' 23	1° 1	0°43' 26	0°43' 26	26°15' 13	13°41' 29	29°13' 27	27°57' 21	21°52' 24	24°34' 24	F17
S18	16 16 4	4°56'12	10°52' 2	25°42' 16	16°12' 21	19°10' 10	10°52' 23	1° 8	0°42' 26	26°17' 13	13°42' 29	29° 7	27°54' 21	21°58' 24	24°38' 24	S18
S19	16 20 1	5°53'38	23°42' 26	5° 17	17°20' 22	2° 3	11° 4	23°14' 0	0°41' 26	26°19' 13	13°44' 29	29° 2	27°51' 22	21° 5	24°42' 24	S19
M20	16 23 57	6°51'02	7°12' 26	23° 18	18°28' 22	24°48' 11	11°16' 23	23°20' 0	0°40' 26	26°21' 13	13°45' 28	28°58' 27	27°48' 22	21°12' 24	24°46' 24	M20
T21	16 27 54	7°48'24	21°32' 26	26°36' 19	19°35' 23	23°32' 11	11°28' 23	23°27' 0	0°39' 26	26°23' 13	13°46' 28	28°55' 27	27°45' 22	21°18' 24	24°50' 24	T21
W22	16 31 51	8°45'46	5°17' 26	26°45' 20	20°42' 24	17°11' 11	11°40' 23	23°33' 0	0°37' 26	26°25' 13	13°48' 28	28°D54	27°41' 22	21°25' 24	24°54' 24	W22
T23	16 35 47	9°43'07	19°48' 26	26°R49	21°49' 25	1° 11	11°53' 23	23°39' 0	0°36' 26	26°27' 13	13°49' 28	28°54' 27	27°38' 22	21°32' 24	24°58' 24	T23
F24	16 39 44	10°40'26	4°12' 26	26°49' 22	25°45' 12	5° 23	12° 5	23°45' 0	0°35' 26	26°30' 13	13°51' 28	28°55' 27	27°35' 22	21°38' 25	24° 2	F24
S25	16 43 40	11°37'44	18°17' 26	26°44' 24	3° 26	16°30' 12	12°17' 23	23°51' 0	0°34' 26	26°32' 13	13°52' 28	28°56' 27	27°32' 22	21°45' 25	24° 7	S25
S26	16 47 37	12°35'02	2°13' 26	26°35' 25	9° 27	14°12' 12	12°30' 23	23°57' 0	0°32' 26	26°34' 13	13°53' 28	28°R57	27°29' 22	21°52' 25	24°11' 24	S26
M27	16 51 33	13°32'19	16°40' 26	26°22' 26	15°27' 27	58°12' 12	42° 3	0°31' 26	0°31' 26	26°36' 13	13°55' 28	28°55' 27	27°26' 22	21°58' 25	24°15' 24	M27
T28	16 55 30	14°29'34	0°41' 26	26° 4	27°22' 28	42°12' 12	55° 24	9° 0	0°30' 26	26°38' 13	13°56' 28	28°52' 27	27°22' 23	21° 5	24°20' 24	T28
W29	16 59 27	15°26'50	14°31' 25	25°43' 28	28°28' 29	26°13° 7	24°15' 0	28° 0	0°28' 26	26°41' 13	13°58' 28	28°47' 27	27°19' 23	21°12' 25	24°25' 24	W29
T30	17 3 23	16°24'04	28° 6	25°19' 29	23°33' 0	8°10' 13	20°12' 24	20° 0	0°27' 26	26°43' 13	13°59' 28	28°40' 27	27°16' 23	21°18' 25	24°30' 24	T30
F31	17 7 20	17°11'19	11°32' 24	25°52' 0	13°39' 0	8°54' 13	23°32' 24	23°26' 0	0°25' 26	26°45' 14	14° 1	28°Y32	27°Y13	23°25' 25	24°35' 24	F31

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	17n25	24s28	3s 8	24n10	2n21	25n32	2n 3	2n20	1s10	23n32	0n14	6n11	2s18	20s35	0s34	22n21	1s 6	14n19	8s13	11n21	11n 5	6s54	8n13	5s42	8n13	5s42	8n13
T 2	17 41	27 10	4 3	24 25	2 23	25 35	2 5	2 38	1 9	23 32	0 14	6 13	2 18	20 35	0 34	22 21	1 6	14 19	8 13	11 20	11 4	6 51	8 13	5 42	8 13	5 42	8 13
F 3	17 57	28 11	4 43	24 38	2 23	25 37	2 6	2 56	1 9	23 31	0 14	6 16	2 18	20 36	0 34	22 21	1 6	14 19	8 13	11 19	11 3	6 48	8 13	5 42	8 13	5 42	8 13
S 4	18 12	27 35	5 7	24 49	2 23	25 39	2 8	3 14	1 9	23 30	0 15	6 18	2 18	20 36	0 34	22 21	1 6	14 20	8 13	11 18	11 2	6 44	8 13	5 41	8 13	5 41	8 13
S 5	18 27	25 33	5 15	24 57	2 21	25 40	2 9	3 32	1 9	23 30	0 15	6 21	2 18	20 36	0 35	22 21	1 6	14 20	8 13	11 17	11 1	6 41	8 13	5 40	8 13	5 40	8 13
M 6	18 42	22 21	5 8	25 3	2 19	25 40	2 10	3 50	1 8	23 29	0 15	6 23	2 18	20 36	0 35	22 21	1 6	14 20	8 13	11 17	10 59	6 38	8 13	5 39	8 13	5 39	8 13
T 7	18 56	18 15	4 47	25 8	2 16	25 40	2 12	4 8	1 8	23 29	0 15	6 26	2 18	20 36	0 35	22 21	1 6	14 20	8 13	11 17	10 58	6 35	8 13	5 38	8 13	5 38	8 13
W 8	19 10	13 29	4 15	25 11	2 13	25 38	2 13	4 26	1 8	23 28	0 15	6 28	2 18	20 36	0 35	22 21	1 6	14 21	8 12	11 17	10 57	6 31	8 13	5 37	8 13	5 37	8 13
T 9	19 24	8 17	3 31	25 11	2 8	25 37	2 14	4 44	1 8	23 27	0 15	6 31	2 18	20 36	0 35	22 21	1 6	14 21	8 12	11 17	10 56	6 28	8 13	5 37	8 13	5 37	8 13
F 10	19 37	2 47	2 39	25 11	2 2	25 34	2 15	5 1	1 7	23 26	0 15	6 33	2 19	20 37	0 35	22 22	1 6	14 21	8 12	11 18	10 55	6 25	8 13	5 36	8 13	5 36	8 13
S 11	19 50	2n51	1 39	25 8	1 56	25 31	2 16	5 19	1 7	23 26	0 15	6 35	2 19	20 37	0 35	22 22	1 6	14 21	8 12	11 18	10 54	6 21	8 13	5 35	8 13	5 35	8 13
S 12	20 3	8 26	0 35	25 4	1 48	25 27	2 16	5 37	1 7	23 25	0 15	6 38	2 19	20 37	0 35	22 22	1 6	14 22	8 12	11 19	10 53	6 18	8 13	5 34	8 13	5 34	8 13
M13	20 15	13 49	0n32	24 59	1 40	25 22	2 17	5 54	1 6	23 24	0 15	6 40	2 19	20 37	0 35	22 22	1 6	14 22	8 12	11 19	10 51	6 15	8 12	5 33	8 12	5 33	8 12
T14	20 27	18 44	1 38	24 52	1 31	25 17	2 18	6 11	1 6	23 23	0 15	6 42	2 19	20 37	0 35	22 22	1 6	14 22	8 12	11 18	10 50	6 11	8 12	5 33	8 12	5 33	8 12
W15	20 39	22 55	2 41	24 44	1 21	25 11	2 18	6 29	1 6	23 22	0 15	6 45	2 19	20 37	0 35	22 22	1 6	14 22	8 12	11 17	10 49	6 8	8 12	5 32	8 12	5 32	8 12
T16	20 50	26 4	3 37	24 35	1 10	25 5	2 18	6 46	1 5	23 22	0 15	6 47	2 19	20 38	0 35	22 22	1 6	14 23	8 12	11 16	10 48	6 5	8 11	5 31	8 11	5 31	8 11
F17	21 1	27 50	4 22	24 25	0 59	24 57	2 19	7 3	1 5	23 21	0 15	6 49	2 19	20 38	0 35	22 22	1 6	14 23	8 12	11 14	10 47	6 2	8 11	5 30	8 11	5 30	8 11
S18	21 11	28 1	4 54	24 13	0 46	24 50	2 19	7 20	1 5	23 20	0 16	6 51	2 20	20 38	0 35	22 22	1 6	14 23	8 12	11 12	10 46	5 58	8 10	5 29	8 10	5 29	8 10
S19	21 22	26 30	5 9	24 1	0 33	24 41	2 19	7 37	1 4	23 19	0 16	6 54	2 20	20 38	0 35	22 22	1 6	14 23	8 12	11 10	10 45	5 55	8 10	5 29	8 10	5 29	8 10
M20	21 32	23 23	5 7	23 48	0 19	24 32	2 19	7 54	1 4	23 18	0 16	6 56	2 20	20 39	0 35	22 22	1 6	14 23	8 11	11 8	10 43	5 52	8 9	5 28	8 9	5 28	8 9
T21	21 41	18 54	4 47	23 33	0 5	24 22	2 19	8 11	1 3	23 17	0 16	6 58	2 20	20 39	0 35	22 22	1 6	14 24	8 11	11 7	10 42	5 48	8 9	5 27	8 9	5 27	8 9
W22	21 50	13 20	4 9	23 18	0s10	24 12	2 18	8 28	1 3	23 16	0 16	7 0	2 20	20 39	0 35	22 23	1 6	14 24	8 11	11 7	10 41	5 45	8 8	5 26	8 8	5 26	8 8
T23	21 59	7 4	3 16	23 3	0 26	24 1	2 18	8 45	1 3	23 15	0 16	7 2	2 20	20 40	0 35	22 23	1 6	14 24	8 11	11 7	10 40	5 42	8 8	5 26	8 8	5 26	8 8
F24	22 7	0 24	2 11	22 47	0 42	23 49	2 18	9 1	1 2	23 14	0 16	7 4	2 21	20 40	0 35	22 23	1 6	14 24	8 11	11 8	10 39	5 38	8 7	5 25	8 7	5 25	8 7
S25	22 15	6s18	0 58	22 30	0 58	23 37	2 17	9 18	1 2	23 13	0 16	7 6	2 21	20 40	0 35	22 23	1 6	14 25	8 11	11 8	10 38	5 35	8 6	5 24	8 6	5 24	8 6
S26	22 33	12 41	0s19	22 13	1 15	23 24	2 16	9 34	1 1	23 12	0 16	7 8	2 21	20 40	0 35	22 23	1 6	14 25	8 11	11 8	10 37	5 32	8 5	5 23	8 5	5 23	8 5
M27	22 20	18 23	1 34	21 56	1 32	23 11	2 15	9 50	1 1	23 11	0 16	7 10	2 21	20 41	0 35	22 23	1 6	14 25	8 11	11 8	10 35	5 28	8 5	5 23	8 5	5 23	8 5
T28	22 37	23 1	2 43	21 39	1 49	22 57	2 14	10 6	1 0	23 10	0 16	7 12	2 21	20 41	0 35	22 23	1 6	14 25	8 11	11 6	10 34	5 25	8 4	5 22	8 4	5 22	8 4
W29	22 43	26 16	3 41	21 21	2 6	22 43	2 13	10 22	1 0	23 8	0 16	7 14	2 21	20 41	0 35	22 23	1 6	14 25	8 11	11 5	10 33	5 22	8 3	5 21	8 3	5 21	8 3
T30	22 49	27 55	4 25	21 4	2 23	22 28	2 12	10 38	1 0	23 7	0 16	7 16	2 22	20 42	0 35	22 23	1 6	14 26	8 11	11 2	10 32	5 19	8 2	5 20	8 2	5 20	8 2
F31	22n55	27s54	4s54	20n46	2s39	22n12	2n11	10n54	0s59	23n 6	0n17	7n18	2s22	20s42	0s35	22n23	1s 6	14n26	8s11	10n59	10n31	5s15	8n 1	5s20	8n 1	5s20	8n 1

ASTRODIENST EPHEMERIS for the year 1409

geocentric

JUNE 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 11 16	18 ^{II} 18'32	24 [☾] 20	24°R22	1 [♂] 44	1 [♂] 38	13 [♂] 45	24 [♂] 31	0°R24	26 ^{II} 47	14 ^{II} 2	28°R23	27 [♂] 10	23 [♂] 32	25 [♂] 39	S 1
S 2	17 15 13	19°15'46	6 [♂] 59	23 ^{II} 50	2°50	2°21	13°58	24°37	0 [♂] 22	26°49	14° 3	28 [♂] 16	27° 7	23°38	25°45	S 2
M 3	17 19 9	20°12'59	19°20	23°17	3°55	3° 5	14°10	24°42	0°20	26°52	14° 5	28°10	27° 3	23°45	25°50	M 3
T 4	17 23 6	21°10'12	1 [♂] 27	22°42	4°59	3°49	14°23	24°48	0°19	26°54	14° 6	28° 6	27° 0	23°52	25°55	T 4
W 5	17 27 2	22° 7'24	13°23	22° 8	6° 4	4°32	14°36	24°53	0°17	26°56	14° 8	28° 4	26°57	23°58	26° 0	W 5
T 6	17 30 59	23° 4'37	25°14	21°33	7° 8	5°16	14°49	24°58	0°15	26°58	14° 9	28°D 3	26°54	24° 5	26° 6	T 6
F 7	17 34 56	24° 1'49	7 [♂] 4	21° 0	8°12	5°59	15° 2	25° 3	0°14	27° 1	14°10	28° 4	26°51	24°12	26°11	F 7
S 8	17 38 52	24°59'02	18°59	20°27	9°16	6°43	15°15	25° 9	0°12	27° 3	14°12	28° 5	26°47	24°18	26°17	S 8
S 9	17 42 49	25°56'14	1 [♂] 4	19°57	10°20	7°26	15°28	25°14	0°10	27° 5	14°13	28°R 5	26°44	24°25	26°22	S 9
M10	17 46 45	26°53'27	13°23	19°29	11°24	8° 9	15°41	25°19	0° 8	27° 7	14°15	28° 4	26°41	24°32	26°28	M10
T 11	17 50 42	27°50'39	25°59	19° 4	12°27	8°52	15°54	25°23	0° 6	27° 9	14°16	28° 0	26°38	24°38	26°34	T 11
W12	17 54 38	28°47'52	8 ^{II} 56	18°42	13°30	9°35	16° 7	25°28	0° 4	27°12	14°17	27°55	26°35	24°45	26°40	W12
T 13	17 58 35	29°45'04	22°13	18°25	14°32	10°18	16°20	25°33	0° 2	27°14	14°19	27°47	26°32	24°52	26°45	T 13
F 14	18 2 31	0 [♂] 42'17	5 [♂] 50	18°11	15°35	11° 1	16°33	25°38	0° 0	27°16	14°20	27°37	26°28	24°58	26°52	F 14
S 15	18 6 28	1°39'29	19°44	18° 2	16°37	11°44	16°46	25°42	29 [♂] 58	27°18	14°21	27°27	26°25	25° 5	26°58	S 15
S 16	18 10 25	2°36'41	3 [♂] 50	17°D57	17°39	12°27	16°59	25°47	29°56	27°21	14°23	27°18	26°22	25°12	27° 4	S 16
M17	18 14 21	3°33'53	18° 4	17°57	18°40	13°10	17°12	25°51	29°54	27°23	14°24	27° 9	26°19	25°18	27°10	M17
T 18	18 18 18	4°31'05	2 [♂] 21	18° 2	19°42	13°52	17°25	25°55	29°52	27°25	14°25	27° 3	26°16	25°25	27°16	T 18
W19	18 22 14	5°28'16	16°37	18°12	20°43	14°35	17°39	26° 0	29°50	27°27	14°27	27° 0	26°13	25°32	27°23	W19
T 20	18 26 11	6°25'28	0 [♂] 49	18°27	21°43	15°17	17°52	26° 4	29°48	27°30	14°28	26°D59	26° 9	25°38	27°29	T 20
F 21	18 30 7	7°22'39	14°56	18°47	22°44	16° 0	18° 5	26° 8	29°46	27°32	14°29	26°59	26° 6	25°45	27°36	F 21
S 22	18 34 4	8°19'50	28°56	19°12	23°44	16°42	18°18	26°12	29°44	27°34	14°31	26°R59	26° 3	25°52	27°42	S 22
S 23	18 38 0	9°17'01	12 [♂] 49	19°43	24°43	17°24	18°32	26°16	29°42	27°36	14°32	26°58	26° 0	25°58	27°49	S 23
M24	18 41 57	10°14'11	26°35	20°19	25°42	18° 7	18°45	26°20	29°39	27°38	14°33	26°55	25°57	26° 5	27°55	M24
T 25	18 45 54	11°11'22	10 [♂] 11	20°59	26°41	18°49	18°58	26°23	29°37	27°41	14°35	26°50	25°53	26°12	28° 2	T 25
W26	18 49 50	12° 8'34	23°38	21°45	27°40	19°31	19°11	26°27	29°35	27°43	14°36	26°41	25°50	26°18	28° 9	W26
T 27	18 53 47	13° 5'45	6 [♂] 52	22°36	28°38	20°13	19°25	26°31	29°33	27°45	14°37	26°31	25°47	26°25	28°16	T 27
F 28	18 57 43	14° 2'57	19°52	23°31	29°35	20°55	19°38	26°34	29°30	27°47	14°38	26°19	25°44	26°32	28°23	F 28
S 29	19 1 40	15° 0'09	2 [♂] 37	24°32	0 [♂] 32	21°36	19°51	26°37	29°28	27°49	14°40	26° 6	25°41	26°38	28°30	S 29
S 30	19 5 36	15 [♂] 57'21	15 [♂] 7	25 ^{II} 37	1 [♂] 29	22 [♂] 18	20 [♂] 5	26 [♂] 41	29 [♂] 26	27 ^{II} 51	14 ^{II} 41	25 [♂] 55	25 [♂] 38	26 [♂] 45	28 [♂] 37	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
S 1	23n 0	26s20	5s 6	20n30	2s54	21n56	2n 9	11n10	0s59	23n 5	0n17	7n20	2s22	20s43	0s35	22n23	1s 6	14n26	8s11	10n56	10n30	5s12	8n 0	5s19	5s18
S 2	23 5	23 29	5 3	20 13	3 9	21 40	2 8	11 25	0 58	23 4	0 17	7 22	2 22	20 43	0 35	22 23	1 6	14 26	8 11	10 54	10 29	5 9	7 59	5 18	5 18
M 3	23 9	19 36	4 47	19 57	3 24	21 23	2 6	11 41	0 58	23 2	0 17	7 24	2 22	20 43	0 35	22 23	1 5	14 26	8 11	10 51	10 27	5 5	7 58	5 18	5 18
T 4	23 13	14 59	4 17	19 43	3 37	21 6	2 4	11 56	0 57	23 1	0 17	7 25	2 23	20 44	0 35	22 23	1 5	14 27	8 11	10 50	10 26	5 2	7 57	5 17	5 17
W 5	23 17	9 53	3 36	19 29	3 49	20 48	2 2	12 11	0 57	23 0	0 17	7 27	2 23	20 44	0 35	22 24	1 5	14 27	8 11	10 49	10 25	4 59	7 56	5 16	5 16
T 6	23 20	4 27	2 47	19 16	4 0	20 29	2 0	12 26	0 56	22 58	0 17	7 29	2 23	20 44	0 36	22 24	1 5	14 27	8 11	10 49	10 24	4 55	7 55	5 15	5 15
F 7	23 23	1n 8	1 50	19 4	4 9	20 10	1 58	12 41	0 56	22 57	0 17	7 31	2 23	20 45	0 36	22 24	1 5	14 27	8 11	10 49	10 23	4 52	7 54	5 15	5 15
S 8	23 25	6 43	0 49	18 54	4 17	19 51	1 56	12 56	0 55	22 56	0 17	7 32	2 23	20 45	0 36	22 24	1 5	14 27	8 11	10 50	10 22	4 49	7 52	5 14	5 14
S 9	23 27	12 8	0n16	18 45	4 24	19 32	1 53	13 11	0 55	22 54	0 17	7 34	2 24	20 46	0 36	22 24	1 5	14 27	8 11	10 50	10 21	4 45	7 51	5 13	5 13
M10	23 29	17 12	1 21	18 38	4 29	19 12	1 51	13 25	0 54	22 53	0 17	7 35	2 24	20 46	0 36	22 24	1 5	14 28	8 11	10 49	10 19	4 42	7 50	5 13	5 13
T 11	23 30	21 38	2 23	18 32	4 33	18 51	1 48	13 40	0 53	22 51	0 17	7 37	2 24	20 47	0 36	22 24	1 5	14 28	8 11	10 48	10 18	4 39	7 48	5 12	5 12
W12	23 31	25 9	3 20	18 28	4 35	18 30	1 45	13 54	0 53	22 50	0 17	7 39	2 24	20 47	0 36	22 24	1 5	14 28	8 11	10 46	10 17	4 35	7 47	5 11	5 11
T 13	23 31	27 24	4 7	18 26	4 36	18 9	1 42	14 8	0 52	22 48	0 18	7 40	2 24	20 47	0 36	22 24	1 5	14 28	8 11	10 43	10 16	4 32	7 46	5 11	5 11
F 14	23 31	28 5	4 42	18 25	4 35	17 47	1 39	14 22	0 52	22 47	0 18	7 42	2 25	20 48	0 36	22 24	1 5	14 28	8 11	10 40	10 15	4 28	7 44	5 10	5 10
S 15	23 30	27 1	5 0	18 27	4 33	17 26	1 36	14 36	0 51	22 45	0 18	7 43	2 25	20 48	0 36	22 24	1 5	14 28	8 11	10 36	10 14	4 25	7 43	5 9	5 9
S 16	23 30	24 14	5 1	18 29	4 30	17 3	1 32	14 49	0 51	22 44	0 18	7 44	2 25	20 49	0 36	22 24	1 5	14 28	8 11	10 33	10 12	4 22	7 41	5 9	5 9
M17	23 28	19 57	4 43	18 34	4 25	16 41	1 29	15 3	0 50	22 42	0 18	7 46	2 25	20 49	0 36	22 24	1 5	14 29	8 11	10 30	10 11	4 18	7 40	5 8	5 8
T 18	23 26	14 31	4 8	18 40	4 20	16 18	1 25	15 16	0 49	22 41	0 18	7 47	2 26	20 50	0 36	22 24	1 5	14 29	8 11	10 27	10 10	4 15	7 38	5 8	5 8
W19	23 24	8 19	3 17	18 48	4 13	15 55	1 21	15 29	0 49	22 39	0 18	7 49	2 26	20 50	0 36	22 24	1 5	14 29	8 11	10 26	10 9	4 12	7 37	5 7	5 7
T 20	23 22	1 43	2 14	18 57	4 5	15 32	1 17	15 42	0 48	22 37	0 18	7 50	2 26	20 51	0 36	22 24	1 5	14 29	8 11	10 26	10 8	4 8	7 35	5 6	5 6
F 21	23 19	4s56	1 4	19 7	3 56	15 8	1 13	15 55	0 48	22 36	0 18	7 51	2 26	20 51	0 36	22 24	1 5	14 29	8 11	10 26	10 7	4 5	7 34	5 6	5 6
S 22	23 15	11 18	0s10	19 19	3 47	14 44	1 9	16 8	0 47	22 34	0 18	7 52	2 26	20 52	0 36	22 24	1 5	14 29	8 11	10 26	10 6	4 2	7 32	5 5	5 5
S 23	23 12	17 3	1 23	19 31	3 36	14 20	1 4	16 21	0 46	22 32	0 18	7 53	2 27	20 52	0 36	22 24	1 5	14 29	8 11	10 26	10 4	3 58	7 30	5 5	5 5
M24	23 7	21 53	2 30	19 45	3 25	13 56	0 59	16 33	0 46	22 30	0 18	7 55	2 27	20 52	0 36	22 24	1 5	14 29	8 11	10 24	10 3	3 55	7 28	5 4	5 4
T 25	23 3	25 28	3 28	19 59	3 14	13 31	0 55	16 45	0 45	22 29	0 19	7 56	2 27	20 53	0 36	22 25	1 5	14 30	8 11	10 22	10 2	3 52	7 27	5 3	5 3
W26	22 58	27 34	4 13	20 14	3 2	13 6	0 50	16 57	0 44	22 27	0 19	7 57	2 27	20 53	0 36	22 25	1 5	14 30	8 11	10 19	10 1	3 48	7 25	5 3	5 3
T 27	22 52	28 4	4 44	20 30	2 49	12 41	0 45	17 9	0 44	22 25	0 19	7 58	2 28	20 54	0 36	22 25	1 5	14 30	8 11	10 16	10 0	3 45	7 23	5 2	5 2
F 28	22 46	26 58	4 59	20 45	2 36	12 16	0 39	17 21	0 43	22 23	0 19	7 59	2 28	20 54	0 36	22 25	1 5	14 30	8 11	10 11	9 59	3 41	7 21	5 2	5 2
S 29	22 40	24 29	4 59	21 1	2 23	11 51	0 34	17 33	0 42	22 21	0 19	8 0	2 28	20 55	0 36	22 25	1 5	14 30	8 11	10 7	9 57	3 38	7 19	5 1	5 1
S 30	22n34	20s53	4s44	21n17	2s 9	11n26	0n29	17n44	0s42	22n19	0n19	8n 1	2s28	20s55	0s36	22n25	1s 5	14n30	8s11	10n 3	9n56	3s35	7n18	5s	5s

ASTRODIENST EPHEMERIS for the year 1409

geocentric

JULY 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 9 33	16°54'34	27°23	26°47	2°25	23°8	0	20°18	26°44	29°R23	27°54	14°42	25°R45	25°Y34	26°X52	28°L44	M 1
T 2	19 13 30	17°51'48	9°26	28° 2	3°21	23°41	20°31	26°47	29°Z21	27°56	14°43	25°Y37	25°31	26°58	28°51	T 2	
W 3	19 17 26	18°49'02	21°21	29°22	4°16	24°23	20°45	26°50	29°19	27°58	14°45	25°32	25°28	27° 5	28°58	W 3	
T 4	19 21 23	19°46'17	3°Y10	0°45	5°11	25° 4	20°58	26°53	29°16	28° 0	14°46	25°30	25°25	27°12	29° 5	T 4	
F 5	19 25 19	20°43'33	14°59	2°14	6° 5	25°46	21°11	26°56	29°14	28° 2	14°47	25°29	25°22	27°18	29°13	F 5	
S 6	19 29 16	21°40'50	26°54	3°46	6°59	26°27	21°25	26°59	29°12	28° 4	14°48	25°29	25°19	27°25	29°20	S 6	
S 7	19 33 12	22°38'08	8°59	5°23	7°52	27° 8	21°38	27° 1	29° 9	28° 6	14°49	25°29	25°15	27°32	29°28	S 7	
M 8	19 37 9	23°35'27	21°20	7° 3	8°45	27°49	21°51	27° 4	29° 7	28° 8	14°50	25°27	25°12	27°38	29°35	M 8	
T 9	19 41 5	24°32'46	4°II 1	8°47	9°37	28°30	22° 5	27° 6	29° 4	28°10	14°52	25°23	25° 9	27°45	29°43	T 9	
W10	19 45 2	25°30'07	17° 6	10°34	10°28	29°11	22°18	27° 8	29° 2	28°12	14°53	25°17	25° 6	27°52	29°50	W10	
T 11	19 48 59	26°27'29	0°36	12°25	11°19	29°52	22°31	27°11	29° 0	28°14	14°54	25° 8	25° 3	27°58	29°58	T 11	
F 12	19 52 55	27°24'51	14°31	14°19	12° 9	0°II32	22°45	27°13	28°57	28°16	14°55	24°57	24°59	28° 5	0°II 5	F 12	
S 13	19 56 52	28°22'15	28°47	16°15	12°59	1°13	22°58	27°15	28°55	28°18	14°56	24°45	24°56	28°12	0°13	S 13	
S 14	20 0 48	29°19'39	13°II	18°13	13°47	1°53	23°11	27°17	28°53	28°20	14°57	24°34	24°53	28°18	0°21	S 14	
M15	20 4 45	0°II7'04	27°57	20°13	14°35	2°34	23°25	27°19	28°50	28°22	14°58	24°25	24°50	28°25	0°29	M15	
T 16	20 8 41	1°14'30	12°II37	22°15	15°22	3°14	23°38	27°20	28°48	28°24	14°59	24°18	24°47	28°32	0°36	T 16	
W17	20 12 38	2°11'56	27°12	24°18	16° 9	3°54	23°51	27°22	28°45	28°26	15° 0	24°13	24°44	28°38	0°44	W17	
T 18	20 16 34	3° 9'23	11°II36	26°22	16°54	4°35	24° 4	27°24	28°43	28°28	15° 1	24°11	24°40	28°45	0°52	T 18	
F 19	20 20 31	4° 6'51	25°47	28°26	17°39	5°15	24°18	27°25	28°41	28°30	15° 2	24°D11	24°37	28°52	1° 0	F 19	
S 20	20 24 28	5° 4'20	9°II44	0°II31	18°23	5°55	24°31	27°26	28°38	28°32	15° 3	24°R11	24°34	28°58	1° 8	S 20	
S 21	20 28 24	6° 1'49	23°26	2°35	19° 5	6°34	24°44	27°28	28°36	28°34	15° 4	24°10	24°31	29° 5	1°16	S 21	
M22	20 32 21	6°59'19	6°X55	4°40	19°47	7°14	24°57	27°29	28°33	28°36	15° 5	24° 7	24°28	29°12	1°24	M22	
T 23	20 36 17	7°56'50	20°12	6°44	20°28	7°54	25°10	27°30	28°31	28°37	15° 6	24° 2	24°25	29°18	1°32	T 23	
W24	20 40 14	8°54'22	3°Z17	8°47	21° 8	8°33	25°24	27°31	28°29	28°39	15° 7	23°53	24°21	29°25	1°40	W24	
T 25	20 44 10	9°51'55	16°10	10°49	21°46	9°13	25°37	27°31	28°26	28°41	15° 8	23°43	24°18	29°32	1°48	T 25	
F 26	20 48 7	10°49'30	28°51	12°50	22°24	9°52	25°50	27°32	28°24	28°43	15° 9	23°31	24°15	29°38	1°57	F 26	
S 27	20 52 3	11°47'05	11°II20	14°50	23° 0	10°31	26° 3	27°33	28°22	28°45	15° 9	23°19	24°12	29°45	2° 5	S 27	
S 28	20 56 0	12°44'41	23°38	16°49	23°35	11°11	26°16	27°33	28°19	28°46	15°10	23° 7	24° 9	29°52	2°13	S 28	
M29	20 59 57	13°42'19	5°X45	18°47	24° 9	11°50	26°29	27°34	28°17	28°48	15°11	22°57	24° 5	29°58	2°21	M29	
T 30	21 3 53	14°39'58	17°43	20°43	24°41	12°28	26°42	27°34	28°15	28°50	15°12	22°49	24° 2	0°Y 5	2°29	T 30	
W31	21 7 50	15°II37'38	29°X34	22°II38	25°II12	13°II 7	26°55	27°Y34	28°Z13	28°II51	15°II13	22°Y44	23°Y59	0°Y12	2°II38	W31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	22n27	16s26	4s17	21n33	1s56	11n 0	0n23	17n55	0s41	22n18	0n19	8n 2	2s29	20s56	0s36	22n25
T 2	22 19	11 25	3 38	21 48	1 42	10 35	0 17	18 6	0 40	22 16	0 19	8 3	2 29	20 56	0 36	22 25
W 3	22 12	6 3	2 50	22 3	1 28	10 9	0 11	18 17	0 39	22 14	0 19	8 4	2 29	20 57	0 36	22 25
T 4	22 3	0 30	1 55	22 17	1 14	9 43	0 5	18 28	0 39	22 12	0 19	8 4	2 29	20 57	0 36	22 25
F 5	21 55	5n 4	0 55	22 30	1 0	9 17	0s 1	18 39	0 38	22 10	0 19	8 5	2 30	20 58	0 36	22 25
S 6	21 46	10 31	0n 7	22 41	0 47	8 51	0 8	18 49	0 37	22 8	0 20	8 6	2 30	20 58	0 36	22 25
S 7	21 37	15 39	1 11	22 51	0 33	8 25	0 14	18 59	0 37	22 6	0 20	8 7	2 30	20 59	0 36	22 25
M 8	21 27	20 17	2 12	23 0	0 20	7 59	0 21	19 9	0 36	22 4	0 20	8 7	2 30	20 59	0 36	22 25
T 9	21 17	24 7	3 9	23 6	0 8	7 33	0 28	19 19	0 35	22 2	0 20	8 8	2 31	21 0	0 36	22 25
W10	21 7	26 49	3 57	23 10	0n 5	7 7	0 35	19 29	0 34	22 0	0 20	8 8	2 31	21 0	0 36	22 25
T 11	20 56	28 5	4 41	23 13	0 17	6 41	0 42	19 38	0 34	21 57	0 20	8 9	2 31	21 1	0 36	22 25
F 12	20 45	27 37	4 56	23 12	0 28	6 15	0 50	19 48	0 33	21 55	0 20	8 10	2 31	21 1	0 36	22 25
S 13	20 33	25 22	5 0	23 10	0 38	5 49	0 57	19 57	0 32	21 53	0 20	8 10	2 32	21 2	0 36	22 25
S 14	20 22	21 26	4 45	23 4	0 48	5 24	1 5	20 6	0 31	21 51	0 20	8 10	2 32	21 2	0 36	22 25
M15	20 9	16 9	4 11	22 56	0 57	4 58	1 13	20 15	0 30	21 49	0 20	8 11	2 32	21 3	0 36	22 25
T 16	19 57	9 56	3 21	22 45	1 6	4 32	1 21	20 23	0 30	21 47	0 20	8 11	2 33	21 3	0 36	22 25
W17	19 44	3 13	2 18	22 32	1 13	4 7	1 29	20 32	0 29	21 45	0 21	8 12	2 33	21 4	0 36	22 25
T 18	19 31	3s35	1 6	22 16	1 20	3 41	1 38	20 40	0 28	21 42	0 21	8 12	2 33	21 4	0 36	22 25
F 19	19 17	10 8	0s 8	21 57	1 26	3 16	1 46	20 48	0 27	21 40	0 21	8 12	2 33	21 5	0 36	22 25
S 20	19 4	16 4	1 21	21 36	1 32	2 51	1 55	20 56	0 26	21 38	0 21	8 12	2 34	21 5	0 36	22 25
S 21	18 50	21 5	2 28	21 12	1 36	2 26	2 4	21 3	0 26	21 36	0 21	8 13	2 34	21 6	0 36	22 25
M22	18 35	24 55	3 26	20 46	1 39	2 1	2 13	21 11	0 25	21 33	0 21	8 13	2 34	21 6	0 36	22 25
T 23	18 20	27 20	4 11	20 18	1 42	1 37	2 22	21 18	0 24	21 31	0 21	8 13	2 34	21 7	0 36	22 25
W24	18 5	28 11	4 42	19 48	1 44	1 12	2 32	21 25	0 23	21 29	0 21	8 13	2 35	21 7	0 36	22 25
T 25	17 50	27 29	4 59	19 16	1 46	0 49	2 41	21 32	0 22	21 26	0 21	8 13	2 35	21 8	0 36	22 25
F 26	17 35	25 21	5 0	18 43	1 46	0 25	2 51	21 39	0 21	21 24	0 21	8 13	2 35	21 8	0 36	22 25
S 27	17 19	22 1	4 47	18 8	1 46	0 2	3 1	21 46	0 20	21 22	0 22	8 13	2 36	21 9	0 36	22 25
S 28	17 2	17 47	4 20	17 31	1 45	0s21	3 11	21 52	0 20	21 19	0 22	8 13	2 36	21 9	0 36	22 25
M29	16 46	12 52	3 42	16 54	1 44	0 44	3 21	21 58	0 19	21 17	0 22	8 13	2 36	21 10	0 36	22 25
T 30	16 29	7 33	2 55	16 15	1 42	1 6	3 31	22 4	0 18	21 15	0 22	8 13	2 36	21 10	0 36	22 25
W31	16n12	2s 1	2s 0	15n35	1n40	1s28	3s41	22n10	0s17	21n12	0n22	8n12	2s37	21s11	0s36	22n25

Julian Day Number = 2235876.5, Delta T = 07m38s

Ecliptic obliquity = 23°31'05, Nutation = - 0°00'06, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°30'10, Lahiri = 15°37'11 Julian Calendar 1 July 1409 == Greg. Calendar 10 July 1409

ASTRODIENST EPHEMERIS for the year 1409

geocentric

AUGUST 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 11 46	16♌35'20	11♍21	24♌32	25♍42	13♏46	27♍8	27°R34	28°R10	28♏53	15♏14	22°R42	23♍56	0♍18	2♍46	T 1	
F 2	21 15 43	17°33'04	23° 9	26°24	26°10	14°25	27°21	27°Υ34	28♌8	28°55	15°14	22°D41	23°53	0°25	2°54	F 2	
S 3	21 19 39	18°30'49	5♌2	28°15	26°36	15° 3	27°34	27°34	28° 6	28°56	15°15	22°Υ42	23°50	0°32	3° 3	S 3	
S 4	21 23 36	19°28'36	17° 6	0♍4	27° 1	15°42	27°46	27°34	28° 4	28°58	15°16	22°R42	23°46	0°38	3°11	S 4	
M 5	21 27 32	20°26'25	29°25	1°52	27°25	16°20	27°59	27°33	28° 1	28°59	15°16	22°42	23°43	0°45	3°20	M 5	
T 6	21 31 29	21°24'16	12♏5	3°39	27°46	16°58	28°12	27°33	27°59	29° 1	15°17	22°40	23°40	0°52	3°28	T 6	
W 7	21 35 26	22°22'08	25°11	5°24	28° 6	17°36	28°25	27°32	27°57	29° 2	15°18	22°36	23°37	0°58	3°36	W 7	
T 8	21 39 22	23°20'02	8♌44	7° 8	28°24	18°14	28°37	27°32	27°55	29° 4	15°18	22°29	23°34	1° 5	3°45	T 8	
F 9	21 43 19	24°17'58	22°45	8°51	28°40	18°52	28°50	27°31	27°53	29° 5	15°19	22°21	23°31	1°11	3°53	F 9	
S 10	21 47 15	25°15'56	7♌12	10°32	28°54	19°30	29° 3	27°30	27°51	29° 7	15°20	22°12	23°27	1°18	4° 2	S 10	
S 11	21 51 12	26°13'55	21°58	12°12	29° 7	20° 7	29°15	27°29	27°49	29° 8	15°20	22° 4	23°24	1°25	4°10	S 11	
M12	21 55 8	27°11'56	6♍57	13°51	29°17	20°45	29°28	27°28	27°47	29° 9	15°21	21°56	23°21	1°31	4°19	M12	
T 13	21 59 5	28° 9'58	21°59	15°29	29°25	21°22	29°40	27°27	27°45	29°11	15°21	21°51	23°18	1°38	4°27	T 13	
W14	22 3 1	29° 8'02	6♌55	17° 5	29°31	21°59	29°53	27°25	27°43	29°12	15°22	21°48	23°15	1°45	4°36	W14	
T 15	22 6 58	0♍6'07	21°38	18°40	29°34	22°36	0♌5	27°24	27°41	29°13	15°22	21°D47	23°11	1°51	4°44	T 15	
F 16	22 10 55	1° 4'14	6♌2	20°13	29°R36	23°13	0°17	27°22	27°39	29°15	15°23	21°48	23° 8	1°58	4°53	F 16	
S 17	22 14 51	2° 2'22	20° 6	21°46	29°35	23°50	0°30	27°21	27°37	29°16	15°23	21°49	23° 5	2° 5	5° 2	S 17	
S 18	22 18 48	3° 0'32	3♌49	23°17	29°31	24°27	0°42	27°19	27°36	29°17	15°24	21°R49	23° 2	2°11	5°10	S 18	
M19	22 22 44	3°58'43	17°12	24°47	29°25	25° 3	0°54	27°17	27°34	29°18	15°24	21°48	22°59	2°18	5°19	M19	
T 20	22 26 41	4°56'56	0♌18	26°16	29°17	25°40	1° 6	27°15	27°32	29°20	15°25	21°45	22°56	2°25	5°27	T 20	
W21	22 30 37	5°55'10	13° 8	27°43	29° 7	26°16	1°18	27°13	27°30	29°21	15°25	21°41	22°52	2°31	5°36	W21	
T 22	22 34 34	6°53'26	25°44	29° 9	28°54	26°52	1°30	27°11	27°29	29°22	15°25	21°34	22°49	2°38	5°44	T 22	
F 23	22 38 30	7°51'43	8♌9	0♌34	28°39	27°28	1°42	27° 9	27°27	29°23	15°26	21°26	22°46	2°45	5°53	F 23	
S 24	22 42 27	8°50'02	20°23	1°57	28°21	28° 4	1°54	27° 7	27°25	29°24	15°26	21°18	22°43	2°51	6° 2	S 24	
S 25	22 46 24	9°48'23	2♌29	3°19	28° 1	28°40	2° 6	27° 5	27°24	29°25	15°26	21°11	22°40	2°58	6°10	S 25	
M26	22 50 20	10°46'46	14°27	4°40	27°39	29°15	2°17	27° 2	27°22	29°26	15°26	21° 5	22°37	3° 5	6°19	M26	
T 27	22 54 17	11°45'10	26°19	5°59	27°15	29°51	2°29	26°59	27°21	29°27	15°27	21° 0	22°33	3°11	6°27	T 27	
W28	22 58 13	12°43'36	8♍7	7°17	26°48	0♌26	2°41	26°57	27°19	29°28	15°27	20°57	22°30	3°18	6°36	W28	
T 29	23 2 10	13°42'05	19°54	8°33	26°20	1° 1	2°52	26°54	27°18	29°29	15°27	20°D56	22°27	3°25	6°44	T 29	
F 30	23 6 6	14°40'35	1♌42	9°48	25°50	1°36	3° 4	26°51	27°16	29°29	15°27	20°57	22°24	3°31	6°53	F 30	
S 31	23 10 3	15♍39'08	13♌37	11♌1	25♍19	2♌11	3♌15	26Υ48	27♌15	29♌30	15♌27	20Υ58	22Υ21	3Υ38	7♍1	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	decl	lat	decl	lat	decl	lat
T 1	15n55	3n35	1 s 0	14n55	1n37	1s49	3s52	22n16	0s16	21n10	0n22	8n12	2s37	21s11	0s36	22n25	1 s 6	14n31	8s14	8n51	9n19	1s46	6n 3	4s47									
F 2	15 37	9 4	0n 2	14 13	1 33	2 10	4 2	22 21	0 15	21 7	0 22	8 12	2 37	21 12	0 36	22 25	1 6	14 31	8 14	8 51	9 18	1 43	6 1	4 47									
S 3	15 20	14 16	1 6	13 31	1 30	2 31	4 13	22 27	0 14	21 5	0 22	8 12	2 37	21 12	0 36	22 25	1 6	14 31	8 14	8 51	9 17	1 40	5 58	4 46									
S 4	15 2	19 1	2 7	12 49	1 25	2 51	4 24	22 32	0 13	21 3	0 22	8 11	2 38	21 12	0 36	22 25	1 6	14 31	8 14	8 52	9 15	1 36	5 55	4 46									
M 5	14 43	23 4	3 3	12 6	1 21	3 10	4 35	22 37	0 12	21 0	0 23	8 11	2 38	21 13	0 36	22 25	1 6	14 31	8 14	8 51	9 14	1 33	5 53	4 46									
T 6	14 25	26 9	3 53	11 23	1 16	3 29	4 46	22 41	0 11	20 58	0 23	8 10	2 38	21 13	0 36	22 25	1 6	14 31	8 14	8 51	9 13	1 29	5 50	4 46									
W 7	14 6	27 57	4 31	10 39	1 10	3 47	4 57	22 46	0 10	20 55	0 23	8 10	2 38	21 14	0 36	22 25	1 6	14 31	8 15	8 49	9 12	1 26	5 47	4 45									
T 8	13 47	28 10	4 57	9 55	1 5	4 4	5 8	22 50	0 9	20 53	0 23	8 10	2 39	21 14	0 36	22 25	1 6	14 30	8 15	8 47	9 11	1 23	5 44	4 45									
F 9	13 28	26 36	5 5	9 11	0 59	4 21	5 19	22 55	0 8	20 50	0 23	8 9	2 39	21 15	0 36	22 25	1 6	14 30	8 15	8 44	9 10	1 19	5 41	4 45									
S 10	13 9	23 17	4 55	8 27	0 52	4 36	5 30	22 59	0 7	20 48	0 23	8 8	2 39	21 15	0 36	22 25	1 6	14 30	8 15	8 40	9 8	1 16	5 39	4 44									
S 11	12 49	18 24	4 25	7 42	0 46	4 52	5 41	23 2	0 6	20 45	0 23	8 8	2 39	21 15	0 36	22 25	1 6	14 30	8 15	8 37	9 7	1 12	5 36	4 44									
M12	12 29	12 20	3 37	6 58	0 39	5 6	5 52	23 6	0 6	20 43	0 23	8 7	2 40	21 16	0 36	22 25	1 6	14 30	8 15	8 34	9 6	1 9	5 33	4 44									
T 13	12 9	5 32	2 33	6 14	0 32	5 19	6 4	23 10	0 5	20 40	0 24	8 7	2 40	21 16	0 36	22 25	1 6	14 30	8 15	8 32	9 5	1 6	5 30	4 44									
W14	11 49	1s33	1 19	5 30	0 25	5 32	6 15	23 13	0 4	20 38	0 24	8 6	2 40	21 16	0 36	22 25	1 6	14 30	8 15	8 31	9 4	1 2	5 27	4 43									
T 15	11 28	8 27	0 1	4 46	0 17	5 43	6 26	23 16	0 2	20 35	0 24	8 5	2 41	21 17	0 36	22 25	1 6	14 30	8 16	8 31	9 2	0 59	5 22	4 43									
F 16	11 8	14 46	1s16	4 2	0 10	5 54	6 37	23 19	0 1	20 33	0 24	8 4	2 41	21 17	0 36	22 25	1 6	14 30	8 16	8 31	9 1	0 55	5 24	4 43									
S 17	10 47	20 11	2 27	3 19	0 2	6 3	6 47	23 22	0 0	20 30	0 24	8 4	2 41	21 18	0 36	22 25	1 6	14 30	8 16	8 32	9 0	0 52	5 19	4 43									
S 18	10 26	24 22	3 27	2 35	0s 5	6 11	6 58	23 25	0n 1	20 28	0 24	8 3	2 41	21 18	0 36	22 25	1 6	14 30	8 16	8 32	8 59	0 49	5 16	4 43									
M19	10 5	27 7	4 14	1 53	0 13	6 18	7 8	23 27	0 2	20 25	0 24	8 2	2 41	21 18	0 36	22 25	1 6	14 30	8 16	8 31	8 58	0 45	5 13	4 42									
T 20	9 44	28 18	4 47	1 10	0 21	6 24	7 18	23 30	0 3	20 23	0 24	8 1	2 42	21 19	0 36	22 25	1 6	14 30	8 16	8 30	8 57	0 42	5 10	4 42									
W21	9 22	27 56	5 5	0 28	0 29	6 29	7 28	23 32	0 4	20 20	0 25	8 0	2 42	21 19	0 36	22 25	1 6	14 29	8 16	8 29	8 55	0 38	5 7	4 42									
T 22	9 1	26 6	5 8	0s14	0 38	6 32	7 37	23 34	0 5	20 17	0 25	7 59	2 42	21 19	0 36	22 25	1 6	14 29	8 17	8 26	8 54	0 35	5 4	4 42									
F 23	8 39	23 2	4 56	0 55	0 46	6 34	7 46	23 36	0 6	20 15	0 25	7 58	2 42	21 20	0 36	22 25	1 6	14 29	8 17	8 23	8 53	0 31	5 1	4 42									
S 24	8 17	19 0	4 30	1 36	0 54	6 35	7 54	23 37	0 7	20 12	0 25	7 57	2 43	21 20	0 36	22 25	1 6	14 29	8 17	8 20	8 52	0 28	4 58	4 42									
S 25	7 55	14 14	3 53	2 17	1 2	6 34	8 2	23 39	0 8	20 10	0 25	7 56	2 43	21 20	0 36	22 25	1 6	14 29	8 17	8 17	8 51	0 25	4 55	4 41									
M26	7 33	8 59	3 5	2 56	1 11	6 32	8 9	23 40	0 9	20 7	0 25	7 55	2 43	21 20	0 36	22 25	1 6	14 29	8 17	8 15	8 49	0 21	4 52	4 41									
T 27	7 11	3 28	2 10	3 36	1 19	6 29	8 16	23 41	0 10	20 5	0 25	7 54	2 43	21 21	0 36	22 25	1 6	14 29	8 17	8 13	8 48	0 18	4 49	4 41									
W28	6 48	2n10	1 9	4 14	1 27	6 24	8 22	23 42	0 11	20 2	0 25	7 53	2 44	21 21	0 36	22 25	1 6	14 29	8 17	8 12	8 47	0 14	4 46	4 41									
T 29	6 26	7 43	0 6	4 52	1 35	6 18	8 28	23 43	0 13	20 0	0 26	7 51	2 44	21 21	0 36	22 25	1 6	14 29	8 17	8 12	8 46	0 11	4 43	4 41									
F 30	6 3	13 1	0n59	5 29	1 44	6 10	8 32	23 44	0 14	19 57	0 26	7 50	2 44	21 22	0 36	22 25	1 6	14 28	8 18	8 12	8 45	0 8	4 40	4 41									
S 31	5n41	17n54	2n 1	6s 5	1s52	6s 1	8s36	23n45	0n15	19n55	0n26	7n49	2s44	21s22	0s36	22n25	1s 6	14n28	8s18	8n13	8n44	0s 4	4n37	4s41									

Julian Day Number = 2235907.5, Delta T = 07m38s

Ecliptic obliquity = 23°31'06, Nutation = - 0°00'06, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°30'14, Lahiri = 15°37'15 Julian Calendar 1 Aug. 1409 == Greg. Calendar 10 Aug. 1409

ASTRODIENST EPHEMERIS for the year 1409

geocentric

SEPTEMBER 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 13 59	16°37'43"	25°41'	12°12'	24°R46	2°46'	3°26'	26°R45	27°R14	29°II31	15°II28	21°V 0	22°V17	3°V45	7°m10	S 1	
M 2	23 17 56	17°36'20"	7°II59	13°22'	24°m11	3°20'	3°38'	26°V42	27°III13	29°32	15°28	21° 1	22°14	3°51	7°18	M 2	
T 3	23 21 53	18°34'59"	20°36'	14°29'	23°36'	3°55'	3°49'	26°39'	27°11	29°32	15°28	21°R 2	22°11	3°58	7°27	T 3	
W 4	23 25 49	19°33'41"	3°III37	15°35'	23° 0	4°29'	4° 0	26°36'	27°10	29°33	15°28	21° 1	22° 8	4° 4	7°35	W 4	
T 5	23 29 46	20°32'25"	17° 5	16°38'	22°24'	5° 3	4°11'	26°32'	27° 9	29°34	15°28	20°59	22° 5	4°11	7°44	T 5	
F 6	23 33 42	21°31'11"	1°Ω 0	17°39'	21°47'	5°37'	4°22'	26°29'	27° 8	29°34	15°28	20°55	22° 2	4°18	7°52	F 6	
S 7	23 37 39	22°29'59"	15°24'	18°37'	21°10'	6°10'	4°33'	26°25'	27° 7	29°35	15°R28	20°51	21°58	4°24	8° 1	S 7	
S 8	23 41 35	23°28'50"	0°m11	19°33'	20°34'	6°44'	4°44'	26°22'	27° 6	29°36	15°28	20°47	21°55	4°31	8° 9	S 8	
M 9	23 45 32	24°27'43"	15°15'	20°26'	19°57'	7°17'	4°54'	26°18'	27° 5	29°36	15°28	20°44	21°52	4°38	8°18	M 9	
T 10	23 49 28	25°26'37"	0°Ω28	21°15'	19°22'	7°50'	5° 5	26°14'	27° 4	29°37	15°28	20°42	21°49	4°44	8°26	T 10	
W11	23 53 25	26°25'34"	15°38'	22° 1	18°47'	8°23'	5°15'	26°11'	27° 3	29°37	15°28	20°D41	21°46	4°51	8°34	W11	
T 12	23 57 21	27°24'33"	0°m38	22°43'	18°13'	8°56'	5°26'	26° 7	27° 2	29°38	15°28	20°41	21°42	4°58	8°43	T 12	
F 13	0 1 18	28°23'33"	15°19'	23°22'	17°41'	9°29'	5°36'	26° 3	27° 2	29°38	15°28	20°42	21°39	5° 4	8°51	F 13	
S 14	0 5 15	29°22'36"	29°37'	23°55'	17°10'	10° 1	5°46'	25°59'	27° 1	29°38	15°27	20°43	21°36	5°11	8°59	S 14	
S 15	0 9 11	0°Ω21'40"	13°A29	24°24'	16°40'	10°33'	5°57'	25°55'	27° 0	29°39	15°27	20°44	21°33	5°18	9° 8	S 15	
M16	0 13 8	1°20'46"	26°56'	24°48'	16°13'	11° 5	6° 7	25°51'	27° 0	29°39	15°27	20°R45	21°30	5°24	9°16	M16	
T 17	0 17 4	2°19'54"	10°III1	25° 6	15°47'	11°37'	6°16'	25°47'	26°59'	29°39	15°27	20°45	21°27	5°31	9°24	T 17	
W18	0 21 1	3°19'04"	22°45'	25°18'	15°24'	12° 9	6°26'	25°42'	26°58'	29°39	15°27	20°44	21°23	5°38	9°32	W18	
T 19	0 24 57	4°18'15"	5°A12	25°R23	15° 2	12°40'	6°36'	25°38'	26°58'	29°40	15°26	20°42	21°20	5°44	9°40	T 19	
F 20	0 28 54	5°17'28"	17°26'	25°22'	14°43'	13°11'	6°46'	25°34'	26°58'	29°40	15°26	20°40	21°17	5°51	9°48	F 20	
S 21	0 32 50	6°16'43"	29°30'	25°12'	14°26'	13°42'	6°55'	25°29'	26°57'	29°40	15°26	20°38	21°14	5°58	9°57	S 21	
S 22	0 36 47	7°16'00"	11°X26	24°55'	14°12'	14°13'	7° 5	25°25'	26°57'	29°40	15°25	20°36	21°11	6° 4	10° 5	S 22	
M23	0 40 44	8°15'19"	23°17'	24°30'	14° 0	14°43'	7°14'	25°20'	26°57'	29°40	15°25	20°34	21° 8	6°11	10°13	M23	
T 24	0 44 40	9°14'40"	5°V 6	23°57'	13°50'	15°14'	7°23'	25°16'	26°56'	29°R40	15°25	20°33	21° 4	6°17	10°21	T 24	
W25	0 48 37	10°14'02"	16°54'	23°15'	13°43'	15°44'	7°32'	25°11'	26°56'	29°40	15°24	20°D32	21° 1	6°24	10°29	W25	
T 26	0 52 33	11°13'27"	28°44'	22°26'	13°39'	16°14'	7°41'	25° 7	26°56'	29°40	15°24	20°32	20°58	6°31	10°36	T 26	
F 27	0 56 30	12°12'55"	10°III37	21°29'	13°D36	16°43'	7°50'	25° 2	26°56'	29°40	15°23	20°33	20°55	6°37	10°44	F 27	
S 28	1 0 26	13°12'24"	22°38'	20°26'	13°37'	17°13'	7°59'	24°58'	26°D56	29°40	15°23	20°34	20°52	6°44	10°52	S 28	
S 29	1 4 23	14°11'56"	4°II48	19°17'	13°39'	17°42'	8° 7	24°53'	26°56'	29°40	15°23	20°34	20°48	6°51	11° 0	S 29	
M30	1 8 19	15°11'30"	17°II10	18°Ω 5	13°m44	18°Ω10	8°Ω16	24°V48	26°III56	29°II40	15°II22	20°V35	20°V45	6°V57	11°m 8	M30	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	5n18	22n 8	2n59	6s41	2s 0	5s51	8s39	23n45	0n16	19n52	0n26	7n48	2s44	21s22	0s36	22n25	1s 6
M 2	4 55	25 29	3 49	7 15	2 8	5 39	8 41	23 46	0 17	19 50	0 26	7 46	2 45	21 22	0 36	22 25	1 6
T 3	4 32	27 41	4 31	7 49	2 15	5 26	8 42	23 46	0 18	19 47	0 26	7 45	2 45	21 22	0 36	22 25	1 6
W 4	4 9	28 27	4 59	8 21	2 23	5 12	8 42	23 46	0 20	19 45	0 26	7 44	2 45	21 23	0 36	22 25	1 6
T 5	3 46	27 36	5 13	8 52	2 30	4 57	8 41	23 46	0 21	19 42	0 27	7 42	2 45	21 23	0 36	22 25	1 7
F 6	3 22	25 1	5 9	9 23	2 38	4 41	8 40	23 46	0 22	19 40	0 27	7 41	2 45	21 23	0 36	22 25	1 7
S 7	2 59	20 49	4 45	9 51	2 45	4 25	8 37	23 46	0 23	19 37	0 27	7 40	2 45	21 23	0 36	22 24	1 7
S 8	2 36	15 13	4 3	10 19	2 51	4 7	8 34	23 45	0 24	19 35	0 27	7 38	2 46	21 23	0 36	22 24	1 7
M 9	2 12	8 38	3 3	10 45	2 58	3 49	8 29	23 45	0 26	19 32	0 27	7 37	2 46	21 24	0 36	22 24	1 7
T 10	1 49	1 29	1 49	11 9	3 4	3 30	8 24	23 44	0 27	19 30	0 27	7 35	2 46	21 24	0 36	22 24	1 7
W11	1 26	5s45	0 28	11 32	3 10	3 11	8 18	23 43	0 28	19 28	0 27	7 34	2 46	21 24	0 36	22 24	1 7
T 12	1 2	12 35	0s55	11 53	3 15	2 51	8 11	23 42	0 29	19 25	0 28	7 32	2 46	21 24	0 36	22 24	1 7
F 13	0 38	18 35	2 12	12 12	3 20	2 31	8 3	23 41	0 31	19 23	0 28	7 31	2 46	21 24	0 36	22 24	1 7
S 14	0 15	23 22	3 19	12 28	3 24	2 12	7 54	23 40	0 32	19 20	0 28	7 29	2 46	21 24	0 36	22 24	1 7
S 15	0s 9	26 39	4 12	12 42	3 27	1 52	7 45	23 39	0 33	19 18	0 28	7 27	2 47	21 24	0 35	22 24	1 7
M16	0 32	28 18	4 49	12 53	3 30	1 32	7 35	23 38	0 35	19 16	0 28	7 26	2 47	21 25	0 35	22 24	1 7
T 17	0 56	28 18	5 10	13 2	3 32	1 13	7 25	23 36	0 36	19 13	0 28	7 24	2 47	21 25	0 35	22 24	1 7
W18	1 19	26 47	5 16	13 7	3 33	0 53	7 14	23 35	0 37	19 11	0 29	7 22	2 47	21 25	0 35	22 24	1 7
T 19	1 43	23 58	5 6	13 9	3 33	0 35	7 2	23 33	0 39	19 9	0 29	7 21	2 47	21 25	0 35	22 24	1 7
F 20	2 7	20 8	4 42	13 7	3 32	0 16	6 50	23 32	0 40	19 7	0 29	7 19	2 47	21 25	0 35	22 24	1 7
S 21	2 30	15 32	4 6	13 2	3 29	0n 1	6 38	23 30	0 41	19 4	0 29	7 17	2 47	21 25	0 35	22 24	1 7
S 22	2 54	10 23	3 20	12 52	3 26	0 18	6 26	23 28	0 43	19 2	0 29	7 16	2 47	21 25	0 35	22 24	1 7
M23	3 17	4 54	2 25	12 37	3 20	0 35	6 13	23 26	0 44	19 0	0 29	7 14	2 47	21 25	0 35	22 24	1 7
T 24	3 41	0n44	1 25	12 18	3 13	0 50	6 0	23 24	0 46	18 58	0 30	7 12	2 48	21 25	0 35	22 24	1 7
W25	4 4	6 21	0 20	11 55	3 4	1 5	5 47	23 22	0 47	18 56	0 30	7 11	2 48	21 25	0 35	22 24	1 7
T 26	4 27	11 46	0n45	11 26	2 53	1 19	5 34	23 20	0 49	18 53	0 30	7 9	2 48	21 25	0 35	22 24	1 7
F 27	4 51	16 47	1 49	10 53	2 41	1 32	5 21	23 18	0 50	18 51	0 30	7 7	2 48	21 25	0 35	22 24	1 7
S 28	5 14	21 13	2 49	10 16	2 26	1 44	5 8	23 15	0 52	18 49	0 30	7 5	2 48	21 25	0 35	22 24	1 7
S 29	5 37	24 48	3 42	9 35	2 10	1 55	4 54	23 13	0 53	18 47	0 30	7 4	2 48	21 25	0 35	22 24	1 7
M30	6s 0	27n18	4n26	8s51	1s52	2n 5	4s41	23n11	0n55	18n45	0n31	7n 2	2s48	21s25	0s35	22n24	1s 7

Julian Day Number = 2235938.5, Delta T = 07m38s

Ecliptic obliquity = 23°31'06", Nutation = - 0°00'06", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°30'19", Lahiri = 15°37'19" Julian Calendar 1 Sept. 1409 == Greg. Calendar 10 Sept. 1409

ASTRODIENST EPHEMERIS for the year 1409

geocentric

OCTOBER 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 12 16	16♌11'06	29♏49	16°R51	13♏51	18♏39	8♏24	24°R43	26♏56	29°R39	15°R22	20°Y35	20°Y42	7°Y 4	11♏15	T 1
W 2	1 16 13	17°10'44	12♏47	15♏38	14° 1	19° 7	8°33	24°Y39	26°56	29°Y39	15°Y21	20°R36	20°39	7°11	11°23	W 2
T 3	1 20 9	18°10'25	26° 7	14°26	14°13	19°35	8°41	24°34	26°56	29°39	15°21	20°36	20°36	7°17	11°31	T 3
F 4	1 24 6	19°10'08	9♏52	13°20	14°27	20° 3	8°49	24°29	26°57	29°38	15°20	20°36	20°33	7°24	11°38	F 4
S 5	1 28 2	20° 9'54	24° 1	12°20	14°43	20°31	8°57	24°24	26°57	29°38	15°19	20°D35	20°29	7°31	11°46	S 5
S 6	1 31 59	21° 9'42	8♏35	11°28	15° 1	20°58	9° 4	24°19	26°57	29°38	15°19	20°35	20°26	7°37	11°53	S 6
M 7	1 35 55	22° 9'31	23°28	10°46	15°20	21°25	9°12	24°15	26°58	29°37	15°18	20°36	20°23	7°44	12° 1	M 7
T 8	1 39 52	23° 9'23	8♌33	10°15	15°42	21°51	9°19	24°10	26°58	29°37	15°17	20°36	20°20	7°51	12° 8	T 8
W 9	1 43 48	24° 9'17	23°43	9°55	16° 6	22°18	9°27	24° 5	26°59	29°36	15°17	20°R36	20°17	7°57	12°15	W 9
T 10	1 47 45	25° 9'13	8♏48	9°D46	16°31	22°44	9°34	24° 0	26°59	29°36	15°16	20°36	20°14	8° 4	12°22	T 10
F 11	1 51 42	26° 9'11	23°39	9°49	16°58	23° 9	9°41	23°55	27° 0	29°35	15°15	20°35	20°10	8°11	12°30	F 11
S 12	1 55 38	27° 9'11	8♌ 9	10° 3	17°27	23°35	9°48	23°50	27° 1	29°35	15°15	20°34	20° 7	8°17	12°37	S 12
S 13	1 59 35	28° 9'13	22°13	10°27	17°57	24° 0	9°54	23°46	27° 1	29°34	15°14	20°34	20° 4	8°24	12°44	S 13
M14	2 3 31	29° 9'16	5♏50	11° 1	18°29	24°24	10° 1	23°41	27° 2	29°34	15°13	20°33	20° 1	8°30	12°51	M14
T 15	2 7 28	0♏ 9'21	19° 1	11°43	19° 3	24°49	10° 8	23°36	27° 3	29°33	15°12	20°32	19°58	8°37	12°58	T 15
W16	2 11 24	1° 9'28	1♌47	12°33	19°37	25°13	10°14	23°31	27° 4	29°32	15°12	20°D32	19°54	8°44	13° 5	W16
T 17	2 15 21	2° 9'36	14°13	13°30	20°13	25°36	10°20	23°27	27° 5	29°31	15°11	20°32	19°51	8°50	13°11	T 17
F 18	2 19 17	3° 9'45	26°22	14°33	20°51	25°59	10°26	23°22	27° 6	29°31	15°10	20°33	19°48	8°57	13°18	F 18
S 19	2 23 14	4° 9'56	8♌21	15°41	21°29	26°22	10°32	23°17	27° 7	29°30	15° 9	20°34	19°45	9° 4	13°25	S 19
S 20	2 27 11	5°10'09	20°12	16°55	22° 9	26°45	10°37	23°12	27° 8	29°29	15° 8	20°36	19°42	9°10	13°31	S 20
M21	2 31 7	6°10'23	1°Y59	18°12	22°50	27° 7	10°43	23° 8	27° 9	29°28	15° 8	20°37	19°39	9°17	13°38	M21
T 22	2 35 4	7°10'39	13°47	19°32	23°33	27°29	10°48	23° 3	27°10	29°27	15° 7	20°38	19°35	9°24	13°44	T 22
W23	2 39 0	8°10'56	25°38	20°55	24°16	27°50	10°53	22°59	27°12	29°26	15° 6	20°R38	19°32	9°30	13°51	W23
T 24	2 42 57	9°11'16	7♏34	22°21	25° 0	28°11	10°58	22°54	27°13	29°26	15° 5	20°37	19°29	9°37	13°57	T 24
F 25	2 46 53	10°11'37	19°38	23°48	25°46	28°31	11° 3	22°50	27°14	29°25	15° 4	20°35	19°26	9°44	14° 3	F 25
S 26	2 50 50	11°11'59	1♏51	25°17	26°32	28°51	11° 8	22°45	27°16	29°24	15° 3	20°32	19°23	9°50	14°10	S 26
S 27	2 54 46	12°12'24	14°14	26°48	27°19	29°11	11°13	22°41	27°17	29°23	15° 2	20°29	19°19	9°57	14°16	S 27
M28	2 58 43	13°12'51	26°50	28°19	28° 8	29°30	11°17	22°36	27°18	29°22	15° 1	20°25	19°16	10° 4	14°22	M28
T 29	3 2 40	14°13'19	9♏38	29°52	28°57	29°49	11°21	22°32	27°20	29°20	15° 0	20°22	19°13	10°10	14°28	T 29
W30	3 6 36	15°13'49	22°42	1♏25	29°47	0♏ 7	11°25	22°28	27°22	29°19	14°59	20°19	19°10	10°17	14°34	W30
T 31	3 10 33	16°14'21	6♏ 1	2♏59	0♏38	0♏25	11°29	22°Y24	27°23	29°Y18	14°Y58	20°Y17	19°Y 7	10°Y23	14°Y39	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	6s23	28n28	4n57	8s 5	1s33	2n15	4s28	23n 8	0n56	18n43	0n31	7n 0	2s48	21s25	0s35	22n24
W 2	6 46	28 8	5 15	7 18	1 13	2 23	4 15	23 6	0 58	18 41	0 31	6 58	2 48	21 25	0 35	22 24
T 3	7 9	26 10	5 16	6 31	0 53	2 30	4 2	23 3	0 59	18 39	0 31	6 57	2 48	21 25	0 35	22 24
F 4	7 32	22 39	5 0	5 46	0 32	2 37	3 49	23 1	1 1	18 37	0 31	6 55	2 48	21 25	0 35	22 24
S 5	7 54	17 44	4 25	5 4	0 12	2 42	3 37	22 58	1 2	18 35	0 31	6 53	2 48	21 25	0 35	22 24
S 6	8 17	11 40	3 33	4 25	0n 8	2 47	3 24	22 56	1 4	18 33	0 32	6 51	2 48	21 24	0 35	22 24
M 7	8 39	4 50	2 25	3 52	0 27	2 51	3 12	22 53	1 6	18 32	0 32	6 50	2 48	21 24	0 35	22 24
T 8	9 2	2s23	1 6	3 23	0 44	2 53	3 0	22 51	1 7	18 30	0 32	6 48	2 48	21 24	0 35	22 24
W 9	9 24	9 30	0s17	3 1	1 0	2 55	2 48	22 48	1 9	18 28	0 32	6 46	2 48	21 24	0 35	22 24
T 10	9 46	16 3	1 40	2 44	1 15	2 56	2 36	22 45	1 10	18 26	0 32	6 44	2 48	21 24	0 35	22 24
F 11	10 8	21 33	2 54	2 44	1 27	2 56	2 25	22 43	1 12	18 25	0 33	6 43	2 48	21 24	0 35	22 24
S 12	10 30	25 36	3 55	2 29	1 38	2 55	2 14	22 40	1 14	18 23	0 33	6 41	2 48	21 24	0 35	22 24
S 13	10 51	27 56	4 40	2 30	1 48	2 54	2 3	22 37	1 16	18 21	0 33	6 39	2 48	21 23	0 35	22 23
M14	11 13	28 30	5 7	2 36	1 55	2 51	1 52	22 35	1 17	18 20	0 33	6 37	2 48	21 23	0 35	22 23
T 15	11 34	27 24	5 17	2 47	2 1	2 48	1 41	22 32	1 19	18 18	0 33	6 36	2 48	21 23	0 35	22 23
W16	11 55	24 53	5 11	3 2	2 6	2 44	1 31	22 29	1 21	18 17	0 34	6 34	2 48	21 23	0 35	22 23
T 17	12 16	21 15	4 51	3 22	2 9	2 39	1 21	22 27	1 23	18 15	0 34	6 32	2 48	21 23	0 35	22 23
F 18	12 36	16 48	4 18	3 44	2 11	2 33	1 11	22 24	1 24	18 14	0 34	6 31	2 48	21 23	0 35	22 23
S 19	12 57	11 46	3 34	4 10	2 12	2 27	1 1	22 22	1 26	18 12	0 34	6 29	2 48	21 22	0 35	22 23
S 20	13 17	6 22	2 41	4 38	2 12	2 20	0 51	22 19	1 28	18 11	0 34	6 27	2 47	21 22	0 35	22 23
M21	13 37	0 45	1 41	5 8	2 11	2 12	0 42	22 17	1 30	18 10	0 35	6 26	2 47	21 22	0 35	22 23
T 22	13 57	4n53	0 38	5 40	2 9	2 4	0 33	22 14	1 32	18 8	0 35	6 24	2 47	21 22	0 35	22 23
W23	14 17	10 22	0n28	6 14	2 7	1 55	0 24	22 12	1 34	18 7	0 35	6 22	2 47	21 21	0 35	22 23
T 24	14 36	15 32	1 32	6 49	2 4	1 45	0 16	22 9	1 36	18 6	0 35	6 21	2 47	21 21	0 35	22 23
F 25	14 55	20 10	2 33	7 25	2 0	1 34	0 8	22 7	1 38	18 5	0 35	6 19	2 47	21 21	0 35	22 23
S 26	15 14	24 0	3 28	8 1	1 56	1 23	0n 1	22 5	1 40	18 4	0 36	6 18	2 47	21 20	0 35	22 23
S 27	15 33	26 47	4 14	8 38	1 51	1 12	0 8	22 3	1 42	18 3	0 36	6 16	2 47	21 20	0 34	22 23
M28	15 51	28 17	4 48	9 16	1 46	1 0	0 16	22 1	1 44	18 2	0 36	6 15	2 47	21 20	0 34	22 23
T 29	16 10	28 18	5 9	9 54	1 41	0 47	0 24	21 59	1 46	18 1	0 36	6 13	2 46	21 19	0 34	22 23
W30	16 27	26 46	5 14	10 31	1 35	0 33	0 31	21 57	1 48	18 0	0 37	6 12	2 46	21 19	0 34	22 23
T 31	16s45	23n43	5n 3	11s 9	1n29	0n20	0n38	21n55	1n50	17n59	0n37	6n10	2s46	21s19	0s34	22n23

Julian Day Number = 2235968.5, Delta T = 07m37s

Ecliptic obliquity = 23°31'06, Nutation = - 0°00'07, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°30'23, Lahiri = 15°37'23 Julian Calendar 1 Oct. 1409 == Greg. Calendar 10 Oct. 1409

ASTRODIENST EPHEMERIS for the year 1409
geocentric

NOVEMBER 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 14 29	17 ¹¹ 14 ⁵⁵	19 ⁰⁸ 39	4 ¹¹ 33	1 ¹² 29	0 ⁰⁸ 42	11 ⁰² 32	22 ⁰⁰ R19	27 ²³ 25	29 ⁰⁰ R17	14 ⁰⁰ R57	20 ⁰⁰ D17	19 ⁰⁰ Y 4	10 ⁰⁰ Y30	14 ⁰⁰ 45	F 1
S 2	3 18 26	18 ⁰⁰ 15 ³⁰	3 ¹⁰ 35	6 ⁰⁰ 7	2 ⁰⁰ 22	0 ⁰⁰ 59	11 ⁰⁰ 36	22 ⁰⁰ Y15	27 ⁰⁰ 27	29 ⁰⁰ II16	14 ⁰⁰ II56	20 ⁰⁰ Y18	19 ⁰⁰ 0	10 ⁰⁰ 37	14 ⁰⁰ 51	S 2
S 3	3 22 22	19 ⁰⁰ 16 ⁰⁷	17 ⁰⁰ 49	7 ⁰⁰ 42	3 ⁰⁰ 15	1 ⁰⁰ 15	11 ⁰⁰ 39	22 ⁰⁰ 11	27 ⁰⁰ 28	29 ⁰⁰ 15	14 ⁰⁰ 55	20 ⁰⁰ 19	18 ⁰⁰ 57	10 ⁰⁰ 43	14 ⁰⁰ 56	S 3
M 4	3 26 19	20 ⁰⁰ 16 ⁴⁷	2 ⁰⁰ 20	9 ⁰⁰ 16	4 ⁰⁰ 8	1 ⁰⁰ 31	11 ⁰⁰ 42	22 ⁰⁰ 7	27 ⁰⁰ 30	29 ⁰⁰ 13	14 ⁰⁰ 54	20 ⁰⁰ 20	18 ⁰⁰ 54	10 ⁰⁰ 50	15 ⁰⁰ 2	M 4
T 5	3 30 15	21 ⁰⁰ 17 ²⁷	17 ⁰⁰ 5	10 ⁰⁰ 51	5 ⁰⁰ 3	1 ⁰⁰ 46	11 ⁰⁰ 45	22 ⁰⁰ 3	27 ⁰⁰ 32	29 ⁰⁰ 12	14 ⁰⁰ 53	20 ⁰⁰ R21	18 ⁰⁰ 51	10 ⁰⁰ 57	15 ⁰⁰ 7	T 5
W 6	3 34 12	22 ⁰⁰ 18 ¹⁰	1 ⁰⁰ 57	12 ⁰⁰ 26	5 ⁰⁰ 58	2 ⁰⁰ 1	11 ⁰⁰ 48	22 ⁰⁰ 0	27 ⁰⁰ 34	29 ⁰⁰ 11	14 ⁰⁰ 52	20 ⁰⁰ 21	18 ⁰⁰ 48	11 ⁰⁰ 3	15 ⁰⁰ 12	W 6
T 7	3 38 9	23 ⁰⁰ 18 ⁵⁴	16 ⁰⁰ 50	14 ⁰⁰ 1	6 ⁰⁰ 54	2 ⁰⁰ 15	11 ⁰⁰ 50	21 ⁰⁰ 56	27 ⁰⁰ 36	29 ⁰⁰ 10	14 ⁰⁰ 51	20 ⁰⁰ 19	18 ⁰⁰ 45	11 ⁰⁰ 10	15 ⁰⁰ 18	T 7
F 8	3 42 5	24 ⁰⁰ 19 ³⁹	1 ⁰⁰ 55	15 ⁰⁰ 36	7 ⁰⁰ 50	2 ⁰⁰ 28	11 ⁰⁰ 53	21 ⁰⁰ 52	27 ⁰⁰ 38	29 ⁰⁰ 8	14 ⁰⁰ 50	20 ⁰⁰ 15	18 ⁰⁰ 41	11 ⁰⁰ 17	15 ⁰⁰ 23	F 8
S 9	3 46 2	25 ⁰⁰ 20 ²⁶	16 ⁰⁰ 5	17 ⁰⁰ 11	8 ⁰⁰ 47	2 ⁰⁰ 41	11 ⁰⁰ 55	21 ⁰⁰ 48	27 ⁰⁰ 40	29 ⁰⁰ 7	14 ⁰⁰ 49	20 ⁰⁰ 10	18 ⁰⁰ 38	11 ⁰⁰ 23	15 ⁰⁰ 28	S 9
S 10	3 49 58	26 ⁰⁰ 21 ¹⁴	0 ⁰⁰ 34	18 ⁰⁰ 45	9 ⁰⁰ 44	2 ⁰⁰ 54	11 ⁰⁰ 57	21 ⁰⁰ 45	27 ⁰⁰ 42	29 ⁰⁰ 6	14 ⁰⁰ 48	20 ⁰⁰ 4	18 ⁰⁰ 35	11 ⁰⁰ 30	15 ⁰⁰ 33	S 10
M 11	3 53 55	27 ⁰⁰ 22 ⁰³	13 ⁰⁰ 57	20 ⁰⁰ 20	10 ⁰⁰ 42	3 ⁰⁰ 5	11 ⁰⁰ 59	21 ⁰⁰ 41	27 ⁰⁰ 44	29 ⁰⁰ 4	14 ⁰⁰ 46	19 ⁰⁰ 58	18 ⁰⁰ 32	11 ⁰⁰ 37	15 ⁰⁰ 37	M 11
T 12	3 57 51	28 ⁰⁰ 22 ⁵³	27 ⁰⁰ 14	21 ⁰⁰ 55	11 ⁰⁰ 41	3 ⁰⁰ 16	12 ⁰⁰ 0	21 ⁰⁰ 38	27 ⁰⁰ 46	29 ⁰⁰ 3	14 ⁰⁰ 45	19 ⁰⁰ 53	18 ⁰⁰ 29	11 ⁰⁰ 43	15 ⁰⁰ 42	T 12
W 13	4 1 48	29 ⁰⁰ 23 ⁴⁴	10 ⁰⁰ 55	23 ⁰⁰ 29	12 ⁰⁰ 40	3 ⁰⁰ 27	12 ⁰⁰ 2	21 ⁰⁰ 35	27 ⁰⁰ 48	29 ⁰⁰ 2	14 ⁰⁰ 44	19 ⁰⁰ 49	18 ⁰⁰ 25	11 ⁰⁰ 50	15 ⁰⁰ 47	W 13
T 14	4 5 44	0 ⁰⁰ 24 ³⁶	22 ⁰⁰ 34	25 ⁰⁰ 4	13 ⁰⁰ 39	3 ⁰⁰ 37	12 ⁰⁰ 3	21 ⁰⁰ 32	27 ⁰⁰ 51	29 ⁰⁰ 0	14 ⁰⁰ 43	19 ⁰⁰ 47	18 ⁰⁰ 22	11 ⁰⁰ 57	15 ⁰⁰ 51	T 14
F 15	4 9 41	1 ⁰⁰ 25 ²⁹	4 ⁰⁰ 45	26 ⁰⁰ 38	14 ⁰⁰ 39	3 ⁰⁰ 46	12 ⁰⁰ 4	21 ⁰⁰ 28	27 ⁰⁰ 53	28 ⁰⁰ 59	14 ⁰⁰ 42	19 ⁰⁰ D47	18 ⁰⁰ 19	12 ⁰⁰ 3	15 ⁰⁰ 56	F 15
S 16	4 13 38	2 ⁰⁰ 26 ²³	16 ⁰⁰ 42	28 ⁰⁰ 12	15 ⁰⁰ 39	3 ⁰⁰ 54	12 ⁰⁰ 5	21 ⁰⁰ 25	27 ⁰⁰ 55	28 ⁰⁰ 57	14 ⁰⁰ 41	19 ⁰⁰ 48	18 ⁰⁰ 16	12 ⁰⁰ 10	16 ⁰⁰ 0	S 16
S 17	4 17 34	3 ⁰⁰ 27 ¹⁷	28 ⁰⁰ 32	29 ⁰⁰ 47	16 ⁰⁰ 40	4 ⁰⁰ 2	12 ⁰⁰ 5	21 ⁰⁰ 22	27 ⁰⁰ 57	28 ⁰⁰ 56	14 ⁰⁰ 40	19 ⁰⁰ 49	18 ⁰⁰ 13	12 ⁰⁰ 16	16 ⁰⁰ 4	S 17
M 18	4 21 31	4 ⁰⁰ 28 ¹³	10 ⁰⁰ Y19	1 ⁰⁰ 52	17 ⁰⁰ 41	4 ⁰⁰ 9	12 ⁰⁰ 6	21 ⁰⁰ 20	28 ⁰⁰ 0	28 ⁰⁰ 54	14 ⁰⁰ 39	19 ⁰⁰ 51	18 ⁰⁰ 10	12 ⁰⁰ 23	16 ⁰⁰ 8	M 18
T 19	4 25 27	5 ⁰⁰ 29 ⁰⁹	22 ⁰⁰ 8	2 ⁰⁰ 55	18 ⁰⁰ 43	4 ⁰⁰ 16	12 ⁰⁰ 6	21 ⁰⁰ 17	28 ⁰⁰ 2	28 ⁰⁰ 53	14 ⁰⁰ 37	19 ⁰⁰ R51	18 ⁰⁰ 6	12 ⁰⁰ 30	16 ⁰⁰ 12	T 19
W 20	4 29 24	6 ⁰⁰ 30 ⁰⁶	4 ⁰⁰ 8	4 ⁰⁰ 29	19 ⁰⁰ 45	4 ⁰⁰ 22	12 ⁰⁰ R 6	21 ⁰⁰ 14	28 ⁰⁰ 5	28 ⁰⁰ 51	14 ⁰⁰ 36	19 ⁰⁰ 50	18 ⁰⁰ 3	12 ⁰⁰ 36	16 ⁰⁰ 16	W 20
T 21	4 33 20	7 ⁰⁰ 31 ⁰³	16 ⁰⁰ 7	6 ⁰⁰ 4	20 ⁰⁰ 48	4 ⁰⁰ 27	12 ⁰⁰ 6	21 ⁰⁰ 12	28 ⁰⁰ 7	28 ⁰⁰ 50	14 ⁰⁰ 35	19 ⁰⁰ 47	18 ⁰⁰ 0	12 ⁰⁰ 43	16 ⁰⁰ 20	T 21
F 22	4 37 17	8 ⁰⁰ 32 ⁰²	28 ⁰⁰ 23	7 ⁰⁰ 38	21 ⁰⁰ 50	4 ⁰⁰ 31	12 ⁰⁰ 5	21 ⁰⁰ 9	28 ⁰⁰ 10	28 ⁰⁰ 48	14 ⁰⁰ 34	19 ⁰⁰ 41	17 ⁰⁰ 57	12 ⁰⁰ 50	16 ⁰⁰ 24	F 22
S 23	4 41 13	9 ⁰⁰ 33 ⁰²	10 ⁰⁰ II52	9 ⁰⁰ 12	22 ⁰⁰ 53	4 ⁰⁰ 35	12 ⁰⁰ 5	21 ⁰⁰ 7	28 ⁰⁰ 12	28 ⁰⁰ 46	14 ⁰⁰ 33	19 ⁰⁰ 33	17 ⁰⁰ 54	12 ⁰⁰ 56	16 ⁰⁰ 27	S 23
S 24	4 45 10	10 ⁰⁰ 34 ⁰²	23 ⁰⁰ 35	10 ⁰⁰ 46	23 ⁰⁰ 57	4 ⁰⁰ 38	12 ⁰⁰ 4	21 ⁰⁰ 4	28 ⁰⁰ 15	28 ⁰⁰ 45	14 ⁰⁰ 32	19 ⁰⁰ 24	17 ⁰⁰ 51	13 ⁰⁰ 3	16 ⁰⁰ 31	S 24
M 25	4 49 7	11 ⁰⁰ 35 ⁰³	6 ⁰⁰ 31	12 ⁰⁰ 21	25 ⁰⁰ 1	4 ⁰⁰ 40	12 ⁰⁰ 3	21 ⁰⁰ 2	28 ⁰⁰ 18	28 ⁰⁰ 43	14 ⁰⁰ 30	19 ⁰⁰ 14	17 ⁰⁰ 47	13 ⁰⁰ 10	16 ⁰⁰ 34	M 25
T 26	4 53 3	12 ⁰⁰ 36 ⁰⁶	19 ⁰⁰ 39	13 ⁰⁰ 55	26 ⁰⁰ 5	4 ⁰⁰ 41	12 ⁰⁰ 2	21 ⁰⁰ 0	28 ⁰⁰ 20	28 ⁰⁰ 42	14 ⁰⁰ 29	19 ⁰⁰ 5	17 ⁰⁰ 44	13 ⁰⁰ 16	16 ⁰⁰ 37	T 26
W 27	4 57 0	13 ⁰⁰ 37 ⁰⁹	3 ⁰⁰ 00	15 ⁰⁰ 30	27 ⁰⁰ 9	4 ⁰⁰ R42	12 ⁰⁰ 1	20 ⁰⁰ 58	28 ⁰⁰ 23	28 ⁰⁰ 40	14 ⁰⁰ 28	18 ⁰⁰ 57	17 ⁰⁰ 41	13 ⁰⁰ 23	16 ⁰⁰ 41	W 27
T 28	5 0 56	14 ⁰⁰ 38 ¹³	16 ⁰⁰ 31	17 ⁰⁰ 5	28 ⁰⁰ 14	4 ⁰⁰ 42	11 ⁰⁰ 59	20 ⁰⁰ 56	28 ⁰⁰ 26	28 ⁰⁰ 38	14 ⁰⁰ 27	18 ⁰⁰ 51	17 ⁰⁰ 38	13 ⁰⁰ 30	16 ⁰⁰ 44	T 28
F 29	5 4 53	15 ⁰⁰ 39 ¹⁸	0 ⁰⁰ 13	18 ⁰⁰ 39	29 ⁰⁰ 19	4 ⁰⁰ 41	11 ⁰⁰ 57	20 ⁰⁰ 55	28 ⁰⁰ 29	28 ⁰⁰ 37	14 ⁰⁰ 26	18 ⁰⁰ 47	17 ⁰⁰ 35	13 ⁰⁰ 36	16 ⁰⁰ 47	F 29
S 30	5 8 49	16 ⁰⁰ 40 ²⁴	14 ⁰⁰ 13	20 ⁰⁰ 14	0 ⁰⁰ 25	4 ⁰⁰ 039	11 ⁰⁰ 55	20 ⁰⁰ Y53	28 ⁰⁰ 31	28 ⁰⁰ II35	14 ⁰⁰ II25	18 ⁰⁰ D46	17 ⁰⁰ Y31	13 ⁰⁰ Y43	16 ⁰⁰ 49	S 30

Day	☉	☽		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	17s 2	19n18	4n34	11s47	1n23	0n 5	0n44	21n53	1n52	17n58	0n37	6n 9	2s46	21s18	0s34	22n23	1s 8	14n19	8s24	7n57	7n29	3n28	1n38	4s45			
S 2	17 19	13 47	3 49	12 24	1 16	0s10	0 51	21 52	1 54	17 57	0 37	6 8	2 46	21 18	0 34	22 23	1 8	14 18	8 24	7 57	7 28	3 31	1 36	4 46			
S 3	17 36	7 25	2 49	13 1	1 10	0 25	0 57	21 50	1 56	17 57	0 37	6 6	2 46	21 18	0 34	22 23	1 8	14 18	8 25	7 58	7 27	3 35	1 33	4 46			
M 4	17 52	0 33	1 37	13 38	1 3	0 41	1 4	21 49	1 59	17 56	0 38	6 5	2 46	21 17	0 34	22 23	1 8	14 18	8 25	7 58	7 26	3 38	1 31	4 46			
T 5	18 9	6s27	0 18	14 14	0 57	0 57	1 9	21 48	2 1	17 55	0 38	6 4	2 45	21 17	0 34	22 23	1 8	14 18	8 25	7 59	7 24	3 42	1 29	4 46			
W 6	18 24	13 11	1s 3	14 50	0 50	1 14	1 15	21 47	2 3	17 55	0 38	6 2	2 45	21 17	0 34	22 23	1 8	14 18	8 25	7 59	7 23	3 45	1 26	4 47			
T 7	18 40	19 9	2 20	15 25	0 43	1 31	1 21	21 46	2 5	17 54	0 38	6 1	2 45	21 16	0 34	22 23	1 8	14 18	8 25	7 58	7 22	3 48	1 24	4 47			
F 8	18 55	23 55	3 26	15 59	0 36	1 48	1 26	21 45	2 8	17 54	0 38	6 0	2 45	21 16	0 34	22 23	1 8	14 18	8 25	7 56	7 21	3 52	1 22	4 47			
S 9	19 10	27 4	4 18	16 33	0 29	2 6	1 31	21 44	2 10	17 54	0 39	5 59	2 45	21 15	0 34	22 23	1 8	14 17	8 25	7 54	7 20	3 55	1 20	4 48			
S 10	19 24	28 24	4 53	17 6	0 22	2 24	1 36	21 43	2 12	17 53	0 39	5 58	2 44	21 15	0 34	22 23	1 8	14 17	8 25	7 52	7 18	3 59	1 18	4 48			
M11	19 38	27 55	5 9	17 38	0 16	2 42	1 41	21 43	2 15	17 53	0 39	5 57	2 44	21 14	0 34	22 23	1 8	14 17	8 25	7 50	7 17	4 2	1 16	4 48			
T 12	19 52	25 49	5 9	18 10	0 9	3 1	1 45	21 43	2 17	17 53	0 39	5 56	2 44	21 14	0 34	22 23	1 8	14 17	8 25	7 48	7 16	4 5	1 13	4 48			
W13	20 5	22 27	4 52	18 41	0 2	3 20	1 50	21 42	2 19	17 53	0 40	5 54	2 44	21 14	0 34	22 23	1 8	14 17	8 25	7 47	7 15	4 9	1 11	4 49			
T 14	20 18	18 9	4 22	19 10	0s 5	3 39	1 54	21 42	2 22	17 52	0 40	5 53	2 44	21 13	0 34	22 23	1 8	14 17	8 25	7 46	7 14	4 12	1 9	4 49			
F 15	20 31	13 13	3 41	19 39	0 12	3 59	1 58	21 43	2 24	17 52	0 40	5 53	2 43	21 13	0 34	22 23	1 8	14 17	8 25	7 46	7 12	4 16	1 7	4 49			
S 16	20 43	7 53	2 50	20 7	0 18	4 19	2 2	21 43	2 27	17 52	0 40	5 52	2 43	21 12	0 34	22 23	1 8	14 17	8 25	7 46	7 11	4 19	1 5	4 50			
S 17	20 55	2 19	1 53	20 34	0 25	4 39	2 5	21 44	2 29	17 52	0 41	5 51	2 43	21 12	0 34	22 23	1 8	14 16	8 25	7 47	7 10	4 23	1 4	4 50			
M18	21 6	3n19	0 52	21 1	0 31	4 59	2 9	21 44	2 32	17 53	0 41	5 50	2 43	21 11	0 34	22 23	1 8	14 16	8 25	7 47	7 9	4 26	1 2	4 50			
T 19	21 17	8 50	0n12	21 26	0 38	5 19	2 12	21 45	2 34	17 53	0 41	5 49	2 42	21 11	0 34	22 23	1 8	14 16	8 25	7 47	7 7	4 29	1 0	4 51			
W20	21 28	14 6	1 16	21 50	0 44	5 40	2 15	21 46	2 37	17 53	0 41	5 48	2 42	21 10	0 34	22 23	1 8	14 16	8 25	7 47	7 6	4 33	0 58	4 51			
T 21	21 38	18 54	2 17	22 13	0 50	6 1	2 18	21 47	2 39	17 53	0 41	5 48	2 42	21 10	0 34	22 23	1 8	14 16	8 25	7 46	7 5	4 36	0 56	4 51			
F 22	21 48	22 59	3 12	22 34	0 56	6 21	2 21	21 49	2 42	17 54	0 42	5 47	2 42	21 9	0 34	22 23	1 8	14 16	8 25	7 43	7 4	4 40	0 54	4 52			
S 23	21 57	26 6	4 0	22 55	1 2	6 42	2 24	21 51	2 45	17 54	0 42	5 46	2 41	21 9	0 34	22 23	1 8	14 16	8 25	7 40	7 3	4 43	0 53	4 52			
S 24	22 6	27 57	4 36	23 15	1 7	7 4	2 26	21 52	2 47	17 54	0 42	5 46	2 41	21 8	0 34	22 23	1 8	14 16	8 25	7 37	7 1	4 46	0 51	4 52			
M25	22 15	28 19	4 58	23 33	1 13	7 25	2 28	21 54	2 50	17 55	0 42	5 45	2 41	21 7	0 34	22 22	1 8	14 16	8 25	7 33	7 0	4 50	0 49	4 53			
T 26	22 23	27 7	5 6	23 51	1 18	7 46	2 30	21 57	2 53	17 55	0 43	5 44	2 41	21 7	0 34	22 22	1 8	14 15	8 25	7 30	6 59	4 53	0 48	4 53			
W27	22 31	24 22	4 57	24 7	1 23	8 8	2 32	21 59	2 55	17 56	0 43	5 44	2 40	21 6	0 34	22 22	1 8	14 15	8 24	7 27	6 58	4 57	0 46	4 53			
T 28	22 38	20 15	4 31	24 21	1 28	8 29	2 34	22 2	2 58	17 57	0 43	5 43	2 40	21 6	0 34	22 22	1 8	14 15	8 24	7 24	6 57	5 0	0 45	4 54			
F 29	22 45	15 1	3 50	24 35	1 33	8 51	2 36	22 5	3 1	17 57	0 43	5 43	2 40	21 5	0 34	22 22	1 8	14 15	8 24	7 23	6 55	5 3	0 43	4 54			
S 30	22s51	8n58	2n55	24s47	1s38	9s12	2n37	22n 8	3n 3	17n58	0n44	5n43	2s40	21s 5	0s34	22n22	1s 8	14n15	8s24	7n23	6n54	5n 7	0n42	4s54			

ASTRODIENST EPHEMERIS for the year 1409
geocentric

DECEMBER 1409 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 12 46	17°41'30	28°7' 7	21°49	1°30	4°R36	11°R53	20°R51	28°34	28°R33	14°R23	18°Y46	17°Y28	13°Y50	16°m52	S 1
M 2	5 16 43	18°42'38	12°18	23°25	2°36	4°J33	11°J51	20°Y50	28°37	28°II32	14°II22	18°R47	17°25	13°56	16°55	M 2
T 3	5 20 39	19°43'47	26°38	25° 0	3°42	4°28	11°48	20°49	28°40	28°30	14°21	18°47	17°22	14° 3	16°57	T 3
W 4	5 24 36	20°44'56	11°18	4°26	3°36	4°49	4°23	11°46	20°47	28°43	14°20	18°45	17°19	14° 9	17° 0	W 4
T 5	5 28 32	21°46'06	25°31	28°12	5°56	4°17	11°43	20°46	28°46	28°27	14°19	18°40	17°16	14°16	17° 2	T 5
F 6	5 32 29	22°47'17	9°55	29°47	7° 2	4°11	11°40	20°45	28°49	28°25	14°18	18°33	17°12	14°23	17° 4	F 6
S 7	5 36 25	23°48'28	24° 9	1°32	8°10	4° 3	11°37	20°44	28°52	28°23	14°16	18°23	17° 9	14°29	17° 6	S 7
S 8	5 40 22	24°49'39	8°3 8	3° 0	9°17	3°54	11°33	20°43	28°55	28°22	14°15	18°11	17° 6	14°36	17° 8	S 8
M 9	5 44 18	25°50'51	21°46	4°36	10°24	3°45	11°29	20°43	28°58	28°20	14°14	18° 0	17° 3	14°43	17°10	M 9
T 10	5 48 15	26°52'03	5°2 2	6°13	11°32	3°35	11°26	20°42	29° 1	28°18	14°13	17°49	17° 0	14°49	17°11	T 10
W 11	5 52 12	27°53'14	17°55	7°50	12°40	3°24	11°22	20°42	29° 4	28°17	14°12	17°40	16°57	14°56	17°13	W 11
T 12	5 56 8	28°54'26	0°36	9°26	13°48	3°12	11°17	20°41	29° 7	28°15	14°11	17°34	16°53	15° 3	17°14	T 12
F 13	6 0 5	29°55'38	12°38	11° 3	14°56	3° 0	11°13	20°41	29°10	28°13	14°10	17°30	16°50	15° 9	17°16	F 13
S 14	6 4 1	0°56'49	24°37	12°40	16° 5	2°46	11° 8	20°41	29°14	28°11	14° 8	17°29	16°47	15°16	17°17	S 14
S 15	6 7 58	1°58'00	6°Y27	14°16	17°14	2°32	11° 4	20°D41	29°17	28°10	14° 7	17°D29	16°44	15°23	17°18	S 15
M 16	6 11 54	2°59'11	18°15	15°52	18°22	2°17	10°59	20°41	29°20	28° 8	14° 6	17°R29	16°41	15°29	17°19	M 16
T 17	6 15 51	4° 0'22	0°8 4	17°28	19°31	2° 2	10°54	20°41	29°23	28° 6	14° 5	17°28	16°37	15°36	17°20	T 17
W 18	6 19 47	5° 1'33	12° 2	19° 4	20°40	1°45	10°49	20°42	29°27	28° 5	14° 4	17°26	16°34	15°42	17°21	W 18
T 19	6 23 44	6° 2'43	24°12	20°39	21°50	1°28	10°43	20°42	29°30	28° 3	14° 3	17°21	16°31	15°49	17°21	T 19
F 20	6 27 41	7° 3'53	6°II37	22°13	22°59	1°11	10°38	20°43	29°33	28° 1	14° 2	17°13	16°28	15°56	17°22	F 20
S 21	6 31 37	8° 5'02	19°20	23°47	24° 9	0°52	10°32	20°43	29°36	28° 0	14° 1	17° 2	16°25	16° 2	17°22	S 21
S 22	6 35 34	9° 6'12	2°22	25°19	25°18	0°33	10°26	20°44	29°40	27°58	14° 0	16°49	16°22	16° 9	17°22	S 22
M 23	6 39 30	10° 7'21	15°41	26°49	26°28	0°14	10°20	20°45	29°43	27°56	13°59	16°36	16°18	16°16	17°22	M 23
T 24	6 43 27	11° 8'30	29°15	28°18	27°38	29°53	10°14	20°46	29°46	27°55	13°58	16°23	16°15	16°22	17°R22	T 24
W 25	6 47 23	12° 9'39	13°J 2	29°44	28°48	29°33	10° 8	20°47	29°50	27°53	13°57	16°12	16°12	16°12	17°22	W 25
T 26	6 51 20	13°10'47	26°56	1°37	29°58	29°11	10° 2	20°48	29°53	27°51	13°56	16° 3	16° 9	16°36	17°22	T 26
F 27	6 55 17	14°11'55	10°m56	2°28	1°37 9	28°50	9°55	20°50	29°57	27°50	13°55	15°57	16° 6	16°42	17°22	F 27
S 28	6 59 13	15°13'03	24°59	3°44	2°19	28°28	9°49	20°51	0°30	27°48	13°54	15°54	16° 3	16°49	17°21	S 28
S 29	7 3 10	16°14'11	9°2 3	4°56	3°30	28° 5	9°42	20°52	0° 3	27°47	13°53	15°54	15°59	16°56	17°21	S 29
M 30	7 7 6	17°15'18	23° 7	6° 3	4°40	27°42	9°35	20°54	0° 7	27°45	13°52	15°54	15°56	17° 2	17°20	M 30
T 31	7 11 3	18°16'26	7°m11	7°34	5°51	27°519	9°J28	20°Y56	0°310	27°II43	13°II51	15°Y53	15°Y53	17°Y 9	17°m19	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	22s57	2n25	1n48	24s58	1s42	9s34	2n38	22n11	3n 6	17n59	0n44	5n42	2s39	21s 4	0s34	22n22
M 2	23 2	4s21	0 35	25 7	1 46	9 55	2 40	22 14	3 9	18 0	0 44	5 42	2 39	21 3	0 34	22 22
T 3	23 7	10 57	0s42	25 15	1 50	10 17	2 41	22 18	3 11	18 1	0 44	5 42	2 39	21 3	0 34	22 22
W 4	23 12	17 2	1 56	25 22	1 53	10 38	2 42	22 22	3 14	18 2	0 45	5 42	2 39	21 2	0 34	22 22
T 5	23 16	22 10	3 3	25 27	1 57	10 59	2 42	22 26	3 17	18 3	0 45	5 41	2 38	21 2	0 34	22 22
F 6	23 19	25 55	3 57	25 31	1 59	11 21	2 43	22 30	3 19	18 4	0 45	5 41	2 38	21 1	0 34	22 22
S 7	23 22	27 59	4 36	25 33	2 2	11 42	2 43	22 35	3 22	18 5	0 45	5 41	2 38	21 0	0 34	22 22
S 8	23 25	28 13	4 58	25 33	2 4	12 3	2 44	22 39	3 25	18 6	0 45	5 41	2 37	21 0	0 34	22 22
M 9	23 27	26 43	5 2	25 32	2 6	12 24	2 44	22 44	3 27	18 7	0 46	5 41	2 37	20 59	0 34	22 22
T 10	23 29	23 45	4 49	25 30	2 8	12 45	2 44	22 49	3 30	18 9	0 46	5 41	2 37	20 58	0 34	22 22
W 11	23 30	19 40	4 22	25 26	2 9	13 5	2 44	22 54	3 33	18 10	0 46	5 41	2 36	20 58	0 34	22 22
T 12	23 31	14 49	3 43	25 20	2 10	13 26	2 44	22 59	3 35	18 11	0 46	5 42	2 36	20 57	0 34	22 22
F 13	23 31	9 31	2 54	25 13	2 10	13 46	2 43	23 5	3 38	18 13	0 47	5 42	2 36	20 56	0 34	22 22
S 14	23 31	3 57	1 58	25 4	2 10	14 6	2 43	23 10	3 40	18 14	0 47	5 42	2 36	20 56	0 34	22 22
S 15	23 30	1n41	0 58	24 53	2 9	14 26	2 42	23 16	3 43	18 16	0 47	5 42	2 35	20 55	0 34	22 22
M 16	23 29	7 14	0n 4	24 41	2 8	14 46	2 42	23 22	3 45	18 17	0 47	5 43	2 35	20 54	0 34	22 22
T 17	23 27	12 34	1 6	24 27	2 6	15 5	2 41	23 28	3 47	18 19	0 47	5 43	2 35	20 54	0 34	22 22
W 18	23 25	17 30	2 6	24 12	2 4	15 24	2 40	23 34	3 50	18 21	0 48	5 43	2 34	20 53	0 34	22 22
T 19	23 23	21 49	3 1	23 55	2 1	15 43	2 39	23 40	3 52	18 22	0 48	5 44	2 34	20 52	0 34	22 22
F 20	23 20	25 15	3 49	23 36	1 57	16 2	2 38	23 46	3 54	18 24	0 48	5 44	2 34	20 52	0 34	22 22
S 21	23 16	27 31	4 26	23 16	1 53	16 20	2 37	23 52	3 56	18 26	0 48	5 45	2 34	20 51	0 34	22 22
S 22	23 12	28 21	4 51	22 54	1 48	16 38	2 35	23 59	3 59	18 27	0 48	5 45	2 33	20 50	0 34	22 22
M 23	23 8	27 33	5 0	22 32	1 42	16 56	2 34	24 5	4 1	18 29	0 49	5 46	2 33	20 49	0 34	22 22
T 24	23 3	25 8	4 53	22 7	1 35	17 13	2 32	24 11	4 3	18 31	0 49	5 47	2 33	20 49	0 34	22 22
W 25	22 58	21 15	4 28	21 42	1 28	17 30	2 31	24 18	4 4	18 33	0 49	5 47	2 32	20 48	0 34	22 22
T 26	22 52	16 8	3 48	21 16	1 19	17 47	2 29	24 24	4 6	18 35	0 49	5 48	2 32	20 47	0 34	22 22
F 27	22 46	10 10	2 53	20 48	1 10	18 3	2 27	24 30	4 8	18 37	0 49	5 49	2 32	20 47	0 34	22 22
S 28	22 39	3 39	1 48	20 21	0 59	18 19	2 25	24 37	4 10	18 39	0 50	5 50	2 31	20 46	0 34	22 22
S 29	22 32	3s 3	0 36	19 52	0 48	18 34	2 23	24 43	4 11	18 41	0 50	5 50	2 31	20 45	0 34	22 22
M 30	22 24	9 36	0s38	19 24	0 36	18 49	2 21	24 49	4 13	18 43	0 50	5 51	2 31	20 44	0 34	22 22
T 31	22s16	15s41	1s50	18s56	0s23	19s 4	2n19	24n55	4n14	18n45	0n50	5n52	2s31	20s44	0s34	22n22

Julian Day Number = 2236029.5, Delta T = 07m37s

Ecliptic obliquity = 23°31'06, Nutation = - 0°00'06, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°30'31, Lahiri = 15°37'32 Julian Calendar 1 Dec. 1409 == Greg. Calendar 10 Dec. 1409