



Astrodienst Ephemeris Tables for the year 1509

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 1509

geocentric

JANUARY 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	7 19 1	20°31'58	22°8' 2	5°R33	3°26	18°49	9°20	25°R32	28°27	3°57	15°36	22°16	21°0	25°43	22°40	M 1
T 2	7 22 58	21°18'04	3°11'53	5°20	4°28	19°36	9°32	25°32	28°29	3°59	15°38	22°18	20°57	25°49	22°43	T 2
W 3	7 26 54	22°19'08	15°40	4°55	5°30	20°23	9°44	25°31	28°31	4° 1	15°40	22°19	20°54	25°56	22°46	W 3
T 4	7 30 51	23°20'12	27°27	4°19	6°33	21°11	9°55	25°30	28°33	4° 4	15°42	22°R19	20°51	26° 3	22°49	T 4
F 5	7 34 48	24°21'15	9°56'16	3°32	7°36	21°58	10° 7	25°29	28°35	4° 6	15°43	22°17	20°48	26° 9	22°52	F 5
S 6	7 38 44	25°22'18	21°11	2°36	8°39	22°45	10°18	25°28	28°36	4° 8	15°45	22°14	20°45	26°16	22°54	S 6
S 7	7 42 41	26°23'19	3°01'4	1°32	9°42	23°32	10°29	25°27	28°38	4°10	15°47	22° 9	20°41	26°23	22°57	S 7
M 8	7 46 37	27°24'20	15°25	0°21	10°46	24°19	10°41	25°25	28°40	4°13	15°49	22° 3	20°38	26°29	22°59	M 8
T 9	7 50 34	28°25'19	27°46	29°3 7	11°50	25° 7	10°52	25°24	28°42	4°15	15°51	21°57	20°35	26°36	23° 1	T 9
W10	7 54 30	29°26'18	10°18	27°51	12°54	25°54	11° 3	25°22	28°45	4°17	15°53	21°50	20°32	26°43	23° 3	W10
T 11	7 58 27	0°27'17	23° 3	26°36	13°59	26°41	11°14	25°21	28°47	4°19	15°54	21°44	20°29	26°49	23° 5	T 11
F 12	8 2 23	1°28'14	6°1 1	25°23	15° 4	27°28	11°25	25°19	28°49	4°22	15°56	21°39	20°25	26°56	23° 7	F 12
S 13	8 6 20	2°29'11	19°15	24°15	16° 9	28°15	11°36	25°17	28°51	4°24	15°58	21°36	20°22	27° 2	23° 9	S 13
S 14	8 10 17	3°30'07	2°14'5	23°13	17°15	29° 2	11°46	25°15	28°53	4°26	16° 0	21°D35	20°19	27° 9	23°10	S 14
M15	8 14 13	4°31'03	16°34	22°18	18°20	29°50	11°57	25°13	28°56	4°28	16° 1	21°36	20°16	27°16	23°12	M15
T 16	8 18 10	5°31'57	0°27'42	21°31	19°26	0°37	12° 7	25°11	28°58	4°31	16° 3	21°37	20°13	27°22	23°13	T 16
W17	8 22 6	6°32'51	15° 8	20°53	20°32	1°24	12°18	25° 9	29° 0	4°33	16° 4	21°R38	20°10	27°29	23°15	W17
T 18	8 26 3	7°33'45	29°50	20°23	21°39	2°11	12°28	25° 6	29° 3	4°35	16° 6	21°38	20° 6	27°36	23°16	T 18
F 19	8 29 59	8°34'37	14°34'2	20° 1	22°45	2°58	12°38	25° 4	29° 5	4°38	16° 8	21°36	20° 3	27°42	23°17	F 19
S 20	8 33 56	9°35'28	29°38	19°48	23°52	3°45	12°49	25° 1	29° 8	4°40	16° 9	21°32	20° 0	27°49	23°18	S 20
S 21	8 37 53	10°36'17	14°29	19°D43	24°59	4°32	12°59	24°59	29°10	4°42	16°11	21°25	19°57	27°56	23°18	S 21
M22	8 41 49	11°37'06	29° 7	19°45	26° 6	5°19	13° 9	24°56	29°13	4°44	16°12	21°17	19°54	28° 2	23°19	M22
T 23	8 45 46	12°37'53	13°34'2	19°54	27°13	6° 6	13°18	24°53	29°15	4°47	16°14	21° 8	19°51	28° 9	23°20	T 23
W24	8 49 42	13°38'38	27°16	20°10	28°21	6°53	13°28	24°50	29°18	4°49	16°15	21° 0	19°47	28°16	23°20	W24
T 25	8 53 39	14°39'22	10°40	20°32	29°28	7°40	13°38	24°47	29°20	4°51	16°16	20°53	19°44	28°22	23°20	T 25
F 26	8 57 35	15°40'04	23°38	21° 0	0°36	8°27	13°47	24°44	29°23	4°53	16°18	20°48	19°41	28°29	23°20	F 26
S 27	9 1 32	16°40'45	6°11	21°32	1°44	9°14	13°57	24°41	29°26	4°56	16°19	20°46	19°38	28°36	23°R21	S 27
S 28	9 5 28	17°41'24	18°25	22°10	2°52	10° 1	14° 6	24°38	29°29	4°58	16°21	20°D45	19°35	28°42	23°20	S 28
M29	9 9 25	18°42'01	0°12'4	22°52	4° 0	10°48	14°15	24°35	29°31	5° 0	16°22	20°46	19°31	28°49	23°20	M29
T 30	9 13 21	19°42'37	12°14	23°37	5° 8	11°34	14°24	24°31	29°34	5° 2	16°23	20°47	19°28	28°55	23°20	T 30
W31	9 17 18	20°43'10	24°11	24°327	6°317	12°21	14°233	24°28	29°37	5° 5	16°24	20°R47	19°25	29°11 2	23°20	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	21s58	20n53	2n39	17s47	1n11	17s26	3n32	16s16	1s 5	21s17	0n38	3n53	2n18	1s16	0s43	19s16
T 2	21 49	22 37	1 40	17 32	1 30	17 39	3 30	16 0	1 5	21 18	0 38	3 54	2 18	1 15	0 43	19 15
W 3	21 39	23 20	0 36	17 20	1 48	17 52	3 28	15 45	1 5	21 20	0 38	3 54	2 19	1 15	0 43	19 15
T 4	21 29	23 1	0s28	17 11	2 7	18 4	3 26	15 30	1 4	21 22	0 38	3 55	2 19	1 14	0 43	19 14
F 5	21 18	21 39	1 32	17 5	2 24	18 16	3 25	15 14	1 4	21 24	0 38	3 56	2 19	1 13	0 43	19 13
S 6	21 7	19 20	2 32	17 2	2 40	18 28	3 22	14 58	1 3	21 25	0 38	3 56	2 19	1 12	0 43	19 13
S 7	20 56	16 10	3 25	17 2	2 55	18 40	3 20	14 42	1 3	21 27	0 38	3 57	2 20	1 12	0 43	19 12
M 8	20 44	12 16	4 10	17 4	3 8	18 51	3 18	14 26	1 3	21 28	0 38	3 58	2 20	1 11	0 43	19 12
T 9	20 32	7 50	4 44	17 9	3 18	19 2	3 16	14 10	1 2	21 30	0 38	3 59	2 20	1 10	0 42	19 11
W10	20 19	3 1	5 4	17 16	3 27	19 13	3 13	13 53	1 2	21 32	0 38	4 0	2 20	1 9	0 42	19 11
T 11	20 6	1s59	5 11	17 25	3 32	19 23	3 10	13 37	1 1	21 33	0 38	4 0	2 21	1 8	0 42	19 10
F 12	19 53	7 0	5 1	17 35	3 36	19 33	3 8	13 20	1 1	21 35	0 38	4 1	2 21	1 7	0 42	19 10
S 13	19 39	11 48	4 35	17 46	3 36	19 43	3 5	13 3	1 0	21 36	0 38	4 2	2 21	1 6	0 42	19 9
S 14	19 25	16 7	3 54	17 58	3 35	19 52	3 2	12 46	1 0	21 38	0 38	4 3	2 22	1 5	0 42	19 9
M15	19 11	19 41	2 59	18 10	3 32	20 1	2 59	12 29	0 59	21 39	0 38	4 4	2 22	1 4	0 42	19 8
T 16	18 56	22 10	1 51	18 23	3 26	20 9	2 56	12 12	0 58	21 40	0 38	4 5	2 22	1 4	0 42	19 8
W17	18 41	23 15	0 35	18 35	3 20	20 17	2 53	11 55	0 58	21 42	0 38	4 7	2 22	1 3	0 42	19 7
T 18	18 26	22 46	0n44	18 48	3 11	20 25	2 50	11 38	0 58	21 43	0 38	4 8	2 23	1 2	0 42	19 7
F 19	18 10	20 41	2 1	19 0	3 2	20 32	2 46	11 20	0 57	21 44	0 38	4 9	2 23	1 1	0 42	19 6
S 20	17 54	17 11	3 11	19 12	2 52	20 39	2 43	11 3	0 57	21 46	0 38	4 10	2 23	1 0	0 42	19 6
S 21	17 37	12 36	4 6	19 23	2 42	20 45	2 40	10 45	0 56	21 47	0 38	4 11	2 23	0 59	0 42	19 5
M22	17 21	7 22	4 45	19 34	2 31	20 51	2 36	10 27	0 56	21 48	0 38	4 13	2 24	0 57	0 42	19 4
T 23	17 4	1 51	5 4	19 44	2 19	20 56	2 33	10 9	0 55	21 49	0 38	4 14	2 24	0 56	0 42	19 4
W24	16 46	3n35	5 5	19 53	2 8	21 0	2 29	9 51	0 55	21 51	0 38	4 15	2 24	0 55	0 42	19 3
T 25	16 29	8 40	4 49	20 1	1 56	21 5	2 25	9 33	0 54	21 52	0 38	4 17	2 24	0 54	0 42	19 3
F 26	16 11	13 12	4 19	20 9	1 44	21 8	2 22	9 15	0 54	21 53	0 38	4 18	2 24	0 53	0 42	19 2
S 27	15 53	17 1	3 36	20 15	1 32	21 11	2 18	8 57	0 53	21 54	0 38	4 20	2 25	0 52	0 42	19 2
S 28	15 34	20 0	2 45	20 21	1 21	21 14	2 14	8 39	0 53	21 55	0 38	4 21	2 25	0 51	0 42	19 1
M29	15 16	22 2	1 47	20 25	1 9	21 16	2 10	8 21	0 52	21 56	0 38	4 23	2 25	0 50	0 42	19 1
T 30	14 57	23 5	0 46	20 29	0 58	21 18	2 7	8 2	0 52	21 57	0 38	4 24	2 25	0 49	0 42	19 0
W31	14s37	23n 5	0s17	20s31	0n47	21s19	2n 3	7s44	0s51	21s58	0n38	4n26	2n26	0s48	0s42	19s 0

Julian Day Number = 2272220.5, Delta T = 271.89 sec

Ecliptic obliquity = 23°30'09, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'22, Lahiri = 17°00'23 Julian Calendar 1 Jan. 1509 == Greg. Calendar 11 Jan. 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

FEBRUARY 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 21 15	21°43'42	5°49	25°20	7°25	13°8	14°42	24°R24	29°40	5°7	16°26	20°R46	19°22	29°II 9	23°R19	T 1
F 2	9 25 11	22°44'12	17°42	26°16	8°34	13°55	14°50	24°II 21	29°43	5°9	16°27	20°42	19°19	29°15	23°18	F 2
S 3	9 29 8	23°44'41	29°43	27°15	9°43	14°41	14°59	24°17	29°46	5°11	16°28	20°36	19°16	29°22	23°18	S 3
S 4	9 33 4	24°45'07	11°57	28°16	10°52	15°28	15°7	24°13	29°48	5°13	16°29	20°27	19°12	29°29	23°17	S 4
M 5	9 37 1	25°45'32	24°23	29°20	12°1	16°15	15°16	24°10	29°51	5°16	16°30	20°16	19°9	29°35	23°16	M 5
T 6	9 40 57	26°45'55	7°2	0°26	13°10	17°1	15°24	24°6	29°54	5°18	16°31	20°4	19°6	29°42	23°15	T 6
W 7	9 44 54	27°46'17	19°54	1°35	14°20	17°48	15°32	24°2	29°57	5°20	16°32	19°51	19°3	29°49	23°13	W 7
T 8	9 48 50	28°46'37	2°58	2°45	15°29	18°34	15°40	23°58	0°0	5°22	16°33	19°40	19°0	29°55	23°12	T 8
F 9	9 52 47	29°46'55	16°14	3°58	16°39	19°21	15°47	23°54	0°4	5°24	16°34	19°31	18°56	0°2	23°11	F 9
S 10	9 56 44	0°47'12	29°40	5°12	17°48	20°7	15°55	23°50	0°7	5°26	16°35	19°25	18°53	0°9	23°9	S 10
S 11	10 0 40	1°47'27	13°18	6°28	18°58	20°54	16°3	23°45	0°10	5°28	16°36	19°21	18°50	0°15	23°8	S 11
M12	10 4 37	2°47'41	27°5	7°46	20°8	21°40	16°10	23°41	0°13	5°30	16°37	19°20	18°47	0°22	23°6	M12
T 13	10 8 33	3°47'54	11°4	9°5	21°18	22°27	16°17	23°37	0°16	5°32	16°38	19°D20	18°44	0°29	23°4	T 13
W14	10 12 30	4°48'05	25°14	10°25	22°28	23°13	16°24	23°33	0°19	5°35	16°39	19°R20	18°41	0°35	23°2	W14
T 15	10 16 26	5°48'14	9°33	11°47	23°38	23°59	16°31	23°28	0°22	5°37	16°39	19°19	18°37	0°42	23°0	T 15
F 16	10 20 23	6°48'22	24°0	13°11	24°48	24°46	16°38	23°24	0°26	5°39	16°40	19°15	18°34	0°48	22°58	F 16
S 17	10 24 19	7°48'28	8°31	14°36	25°59	25°32	16°45	23°20	0°29	5°41	16°41	19°8	18°31	0°55	22°55	S 17
S 18	10 28 16	8°48'33	22°59	16°2	27°9	26°18	16°51	23°15	0°32	5°43	16°42	18°59	18°28	1°2	22°53	S 18
M19	10 32 13	9°48'35	7°19	17°29	28°19	27°4	16°57	23°11	0°35	5°45	16°42	18°48	18°25	1°8	22°50	M19
T 20	10 36 9	10°48'36	21°24	18°58	29°30	27°50	17°4	23°6	0°39	5°47	16°43	18°35	18°22	1°15	22°48	T 20
W21	10 40 6	11°48'34	5°8	20°28	0°40	28°37	17°10	23°1	0°42	5°48	16°43	18°23	18°18	1°22	22°45	W21
T 22	10 44 2	12°48'31	18°30	21°59	1°51	29°23	17°15	22°57	0°45	5°50	16°44	18°12	18°15	1°28	22°42	T 22
F 23	10 47 59	13°48'25	1°28	23°31	3°2	0°9	17°21	22°52	0°48	5°52	16°45	18°4	18°12	1°35	22°40	F 23
S 24	10 51 55	14°48'17	14°3	25°5	4°12	0°55	17°27	22°48	0°52	5°54	16°45	17°59	18°9	1°42	22°37	S 24
S 25	10 55 52	15°48'07	26°19	26°39	5°23	1°41	17°32	22°43	0°55	5°56	16°45	17°56	18°6	1°48	22°33	S 25
M26	10 59 48	16°47'55	8°20	28°15	6°34	2°27	17°37	22°38	0°58	5°58	16°46	17°55	18°2	1°55	22°30	M26
T 27	11 3 45	17°47'41	20°12	29°52	7°45	3°12	17°42	22°34	1°2	6°0	16°46	17°55	17°59	2°2	22°27	T 27
W28	11 7 42	18°47'24	2°0	1°31	8°56	3°58	17°47	22°29	1°5	6°2	16°47	17°54	17°56	2°8	22°24	W28

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
T 1	14s18	22n 3	1s20	20s32	0n36	21s19	1n59	7s25	0s51	21s59	0n38	4n27	2n26	0s46	0s42	18s59
F 2	13 58	20 2	2 19	20 32	0 25	21 19	1 55	7 7	0 50	22 0	0 38	4 29	2 26	0 45	0 42	18 59
S 3	13 38	17 8	3 12	20 31	0 15	21 18	1 51	6 48	0 50	22 1	0 38	4 31	2 26	0 44	0 42	18 58
S 4	13 18	13 27	3 58	20 29	0 5	21 17	1 47	6 30	0 49	22 2	0 38	4 32	2 26	0 43	0 42	18 58
M 5	12 58	9 9	4 33	20 25	0s 5	21 15	1 43	6 11	0 48	22 3	0 38	4 34	2 27	0 42	0 42	18 57
T 6	12 37	4 23	4 55	20 20	0 14	21 13	1 39	5 52	0 48	22 4	0 38	4 36	2 27	0 40	0 42	18 57
W 7	12 17	0s37	5 2	20 14	0 23	21 10	1 35	5 34	0 47	22 5	0 38	4 37	2 27	0 39	0 42	18 56
T 8	11 56	5 41	4 54	20 7	0 32	21 6	1 31	5 15	0 47	22 5	0 38	4 39	2 27	0 38	0 42	18 56
F 9	11 35	10 33	4 31	19 58	0 41	21 2	1 27	4 56	0 46	22 6	0 38	4 41	2 27	0 37	0 42	18 55
S 10	11 13	15 0	3 52	19 48	0 49	20 57	1 23	4 37	0 46	22 7	0 39	4 43	2 27	0 36	0 42	18 54
S 11	10 52	18 43	2 59	19 37	0 56	20 52	1 18	4 18	0 45	22 8	0 39	4 45	2 28	0 34	0 42	18 54
M12	10 30	21 26	1 55	19 24	1 4	20 46	1 14	3 59	0 44	22 9	0 39	4 46	2 28	0 33	0 42	18 53
T 13	10 8	22 53	0 44	19 11	1 11	20 39	1 10	3 41	0 44	22 9	0 39	4 48	2 28	0 32	0 42	18 53
W14	9 47	22 54	0n31	18 55	1 18	20 32	1 6	3 22	0 43	22 10	0 39	4 50	2 28	0 30	0 42	18 53
T 15	9 24	21 25	1 45	18 39	1 24	20 24	1 2	3 3	0 43	22 11	0 39	4 52	2 28	0 29	0 42	18 52
F 16	9 2	18 32	2 53	18 21	1 30	20 16	0 58	2 44	0 42	22 11	0 39	4 54	2 28	0 28	0 41	18 52
S 17	8 40	14 30	3 49	18 2	1 36	20 7	0 54	2 25	0 41	22 12	0 39	4 56	2 28	0 27	0 41	18 51
S 18	8 17	9 37	4 31	17 41	1 41	19 58	0 50	2 6	0 41	22 13	0 39	4 57	2 29	0 25	0 41	18 51
M19	7 55	4 17	4 55	17 19	1 46	19 48	0 46	1 47	0 40	22 13	0 39	4 59	2 29	0 24	0 41	18 50
T 20	7 32	1n11	5 0	16 56	1 51	19 37	0 42	1 28	0 40	22 14	0 39	5 1	2 29	0 23	0 41	18 50
W21	7 9	6 27	4 48	16 31	1 55	19 26	0 38	1 9	0 39	22 14	0 39	5 3	2 29	0 21	0 41	18 49
T 22	6 46	11 17	4 20	16 6	1 59	19 15	0 34	0 50	0 38	22 15	0 39	5 5	2 29	0 20	0 41	18 49
F 23	6 23	15 27	3 40	15 38	2 2	19 3	0 30	0 31	0 38	22 15	0 39	5 7	2 29	0 19	0 41	18 48
S 24	6 0	18 47	2 49	15 10	2 5	18 50	0 26	0 12	0 37	22 16	0 39	5 9	2 29	0 17	0 41	18 48
S 25	5 37	21 11	1 52	14 40	2 8	18 37	0 22	0n 7	0 37	22 16	0 39	5 11	2 29	0 16	0 41	18 47
M26	5 14	22 35	0 51	14 9	2 10	18 23	0 19	0 25	0 36	22 17	0 39	5 13	2 29	0 15	0 41	18 47
T 27	4 50	22 56	0s12	13 36	2 12	18 8	0 15	0 44	0 35	22 17	0 39	5 15	2 29	0 13	0 41	18 46
W28	4s27	22n15	1s14	13s 2	2s13	17s54	0n11	1n 3	0s35	22s18	0n39	5n17	2n29	0s12	0s41	18s46

Julian Day Number = 2272251.5, Delta T = 271.70 sec

Ecliptic obliquity = 23°30'10, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'26, Lahiri = 17°00'27 Julian Calendar 1 Feb. 1509 == Greg. Calendar 11 Feb. 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

MARCH 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day	
T 1	11 11 38	19°47'05	13°49	3°10	10°8	7	4°44	17°52	22°R24	1°9	6°3	16°47	17°R53	17°53	2°15	22°R20	T 1
F 2	11 15 35	20°46'44	25°45	4°51	11°18		5°30	17°57	22°19	1°12	6°5	16°47	17°49	17°50	2°22	22°17	F 2
S 3	11 19 31	21°46'20	7°52	6°33	12°29		6°15	18°1	22°15	1°15	6°7	16°48	17°42	17°47	2°28	22°13	S 3
S 4	11 23 28	22°45'54	20°14	8°16	13°41		7°1	18°5	22°10	1°19	6°9	16°48	17°33	17°43	2°35	22°10	S 4
M 5	11 27 24	23°45'26	2°19	10°1	14°52		7°47	18°9	22°5	1°22	6°10	16°48	17°21	17°40	2°41	22°6	M 5
T 6	11 31 21	24°44'56	15°49	11°47	16°3		8°32	18°13	22°1	1°25	6°12	16°48	17°9	17°37	2°48	22°2	T 6
W 7	11 35 17	25°44'24	29°2	13°34	17°14		9°18	18°17	21°56	1°29	6°14	16°48	16°56	17°34	2°55	21°58	W 7
T 8	11 39 14	26°43'49	12°30	15°22	18°26		10°3	18°20	21°51	1°32	6°15	16°48	16°44	17°31	3°1	21°55	T 8
F 9	11 43 11	27°43'13	26°10	17°12	19°37		10°48	18°24	21°46	1°36	6°17	16°48	16°34	17°28	3°8	21°51	F 9
S 10	11 47 7	28°42'35	9°59	19°3	20°49		11°34	18°27	21°42	1°39	6°18	16°R48	16°27	17°24	3°15	21°47	S 10
S 11	11 51 4	29°41'55	23°56	20°55	22°0		12°19	18°30	21°37	1°43	6°20	16°48	16°23	17°21	3°21	21°42	S 11
M12	11 55 0	0°41'13	7°56	22°49	23°12		13°4	18°33	21°32	1°46	6°21	16°48	16°21	17°18	3°28	21°38	M12
T 13	11 58 57	1°40'29	22°0	24°44	24°23		13°50	18°35	21°28	1°49	6°23	16°48	16°D21	17°15	3°35	21°34	T 13
W14	12 2 53	2°39'44	6°3	26°40	25°35		14°35	18°38	21°23	1°53	6°24	16°48	16°R21	17°12	3°41	21°30	W14
T 15	12 6 50	3°38'57	20°14	28°38	26°47		15°20	18°40	21°19	1°56	6°26	16°48	16°20	17°8	3°48	21°26	T 15
F 16	12 10 46	4°38'08	4°21	0°37	27°58		16°5	18°42	21°14	2°0	6°27	16°48	16°17	17°5	3°55	21°21	F 16
S 17	12 14 43	5°37'17	18°27	2°37	29°10		16°50	18°44	21°10	2°3	6°29	16°48	16°11	17°2	4°1	21°17	S 17
S 18	12 18 40	6°36'25	2°28	4°38	0°22		17°35	18°46	21°5	2°7	6°30	16°47	16°3	16°59	4°8	21°12	S 18
M19	12 22 36	7°35'30	16°21	6°40	1°34		18°20	18°47	21°1	2°10	6°31	16°47	15°53	16°56	4°15	21°8	M19
T 20	12 26 33	8°34'34	0°37	8°43	2°46		19°5	18°49	20°56	2°13	6°33	16°47	15°41	16°53	4°21	21°3	T 20
W21	12 30 29	9°33'35	13°27	10°47	3°57		19°50	18°50	20°52	2°17	6°34	16°46	15°30	16°49	4°28	20°59	W21
T 22	12 34 26	10°32'35	26°35	12°52	5°9		20°35	18°51	20°48	2°20	6°35	16°46	15°21	16°46	4°35	20°54	T 22
F 23	12 38 22	11°31'32	9°24	14°57	6°21		21°19	18°52	20°43	2°24	6°36	16°46	15°13	16°43	4°41	20°50	F 23
S 24	12 42 19	12°30'27	21°54	17°2	7°33		22°4	18°52	20°39	2°27	6°38	16°45	15°8	16°40	4°48	20°45	S 24
S 25	12 46 15	13°29'20	4°11	19°8	8°45		22°49	18°53	20°35	2°30	6°39	16°45	15°5	16°37	4°54	20°40	S 25
M26	12 50 12	14°28'11	16°8	21°13	9°57		23°33	18°53	20°31	2°34	6°40	16°44	15°D 5	16°33	5°1	20°36	M26
T 27	12 54 8	15°27'00	28°1	23°18	11°9		24°18	18°R53	20°27	2°37	6°41	16°44	15°5	16°30	5°8	20°31	T 27
W28	12 58 5	16°25'46	9°24	25°22	12°21		25°3	18°53	20°23	2°41	6°42	16°43	15°6	16°27	5°14	20°26	W28
T 29	13 2 2	17°24'30	21°40	27°25	13°33		25°47	18°52	20°19	2°44	6°43	16°43	15°R 6	16°24	5°21	20°22	T 29
F 30	13 5 58	18°23'12	3°27	29°26	14°45		26°31	18°52	20°15	2°47	6°44	16°42	15°5	16°21	5°28	20°17	F 30
S 31	13 9 55	19°21'51	15°46	1°26	15°58		27°16	18°51	20°11	2°51	6°45	16°41	15°1	16°18	5°34	20°12	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	4s 3	20n35	2s13	12s27	2s14	17s38	0n 7	1n22	0s34	22s18	0n39	5n19	2n30	0s11	0s41	18s46	0n 3
F 2	3 40	18 0	3 6	11 50	2 14	17 22	0 4	1 41	0 34	22 19	0 39	5 21	2 30	0 9	0 41	18 45	0 3
S 3	3 16	14 37	3 52	11 13	2 14	17 6	0 0	1 59	0 33	22 19	0 39	5 22	2 30	0 8	0 41	18 45	0 3
S 4	2 53	10 33	4 28	10 33	2 14	16 49	0s 4	2 18	0 32	22 19	0 39	5 24	2 30	0 6	0 41	18 44	0 3
M 5	2 29	5 57	4 51	9 53	2 13	16 32	0 7	2 37	0 32	22 20	0 39	5 26	2 30	0 5	0 41	18 44	0 3
T 6	2 6	1 0	5 0	9 11	2 11	16 14	0 11	2 55	0 31	22 20	0 39	5 28	2 30	0 4	0 41	18 43	0 3
W 7	1 42	4s 6	4 54	8 28	2 10	15 56	0 14	3 14	0 30	22 20	0 39	5 30	2 30	0 2	0 41	18 43	0 3
T 8	1 18	9 6	4 31	7 44	2 7	15 37	0 17	3 32	0 30	22 21	0 39	5 32	2 30	0 1	0 41	18 43	0 3
F 9	0 55	13 44	3 53	6 59	2 4	15 18	0 21	3 51	0 29	22 21	0 39	5 34	2 30	0n 0	0 41	18 42	0 3
S 10	0 31	17 41	3 0	6 12	2 1	14 59	0 24	4 9	0 28	22 21	0 39	5 36	2 30	0 2	0 41	18 42	0 3
S 11	0 7	20 40	1 56	5 24	1 57	14 39	0 27	4 27	0 28	22 21	0 39	5 38	2 30	0 3	0 41	18 42	0 3
M12	0n16	22 25	0 44	4 35	1 53	14 18	0 31	4 45	0 27	22 22	0 39	5 39	2 30	0 4	0 41	18 41	0 3
T 13	0 40	22 46	0n30	3 45	1 48	13 57	0 34	5 4	0 27	22 22	0 39	5 41	2 30	0 6	0 41	18 41	0 3
W14	1 4	21 39	1 43	2 53	1 42	13 36	0 37	5 22	0 26	22 22	0 39	5 43	2 30	0 7	0 41	18 40	0 3
T 15	1 27	19 11	2 50	2 1	1 36	13 15	0 40	5 40	0 25	22 22	0 39	5 45	2 30	0 9	0 41	18 40	0 3
F 16	1 51	15 34	3 46	1 8	1 30	12 53	0 43	5 58	0 25	22 22	0 39	5 47	2 30	0 10	0 41	18 40	0 3
S 17	2 14	11 5	4 28	0 13	1 22	12 30	0 46	6 16	0 24	22 22	0 39	5 48	2 30	0 11	0 41	18 39	0 3
S 18	2 38	6 3	4 54	0n42	1 15	12 8	0 48	6 34	0 23	22 23	0 39	5 50	2 30	0 13	0 41	18 39	0 3
M19	3 1	0 45	5 2	1 38	1 7	11 45	0 51	6 51	0 23	22 23	0 39	5 52	2 30	0 14	0 41	18 39	0 3
T 20	3 25	4n30	4 53	2 34	0 58	11 21	0 54	7 9	0 22	22 23	0 39	5 54	2 30	0 15	0 41	18 38	0 3
W21	3 48	9 26	4 28	3 31	0 49	10 58	0 56	7 27	0 21	22 23	0 39	5 55	2 30	0 17	0 41	18 38	0 3
T 22	4 11	13 50	3 48	4 29	0 40	10 34	0 59	7 44	0 21	22 23	0 39	5 57	2 30	0 18	0 41	18 38	0 3
F 23	4 34	17 29	2 58	5 27	0 30	10 9	1 2	8 2	0 20	22 23	0 39	5 59	2 30	0 19	0 41	18 38	0 3
S 24	4 57	20 14	2 1	6 24	0 20	9 45	1 4	8 19	0 19	22 23	0 39	6 0	2 30	0 21	0 41	18 37	0 3
S 25	5 20	21 59	0 58	7 22	0 9	9 20	1 6	8 36	0 19	22 23	0 39	6 2	2 30	0 22	0 41	18 37	0 3
M26	5 43	22 41	0s 6	8 19	0n 1	8 55	1 9	8 53	0 18	22 23	0 39	6 3	2 29	0 24	0 41	18 37	0 3
T 27	6 6	22 20	1 9	9 16	0 12	8 30	1 11	9 10	0 18	22 23	0 39	6 5	2 29	0 25	0 41	18 36	0 3
W28	6 29	21 0	2 9	10 12	0 24	8 4	1 13	9 27	0 17	22 23	0 39	6 6	2 29	0 26	0 41	18 36	0 3
T 29	6 51	18 44	3 3	11 7	0 35	7 38	1 15	9 44	0 16	22 23	0 39	6 8	2 29	0 28	0 41	18 36	0 3
F 30	7 14	15 40	3 50	12 1	0 46	7 12	1 17	10 1	0 16	22 23	0 39	6 9	2 29	0 29	0 41	18 36	0 3
S 31	7n36	11n53	4s28	12n53	0n57	6s46	1s19	10n18	0s15	22s23	0n39	6n11	2n29	0n30	0s41	18s35	0n 3

Julian Day Number = 2272279.5, Delta T = 271.53 sec

Ecliptic obliquity = 23°30'10, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'30, Lahiri = 17°00'31 Julian Calendar 1 March 1509 == Greg. Calendar 11 March 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

APRIL 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 13 51	20°Y20'29	28°J12	3°B23	17°K10	28°Y 0	18°R50	20°R 7	2°Y54	6°46	16°R41	14°R56	16°J14	5°B41	20°R 8	S 1
M 2	13 17 48	21°19'04	10°M57	5°18	18°22	28°44	18°J49	20°M 4	2°57	6°47	16°J40	14°J48	16°11	5°48	20°J 3	M 2
T 3	13 21 44	22°17'37	24° 4	7°10	19°34	29°29	18°48	20° 0	3° 1	6°48	16°39	14°40	16° 8	5°54	19°58	T 3
W 4	13 25 41	23°16'07	7°A32	8°59	20°46	0°B13	18°47	19°57	3° 4	6°49	16°39	14°31	16° 5	6° 1	19°53	W 4
T 5	13 29 37	24°14'36	21°20	10°45	21°58	0°57	18°45	19°53	3° 7	6°50	16°38	14°23	16° 2	6° 8	19°49	T 5
F 6	13 33 34	25°13'03	5°M25	12°27	23°11	1°41	18°43	19°50	3°10	6°50	16°37	14°16	15°59	6°14	19°44	F 6
S 7	13 37 31	26°11'28	19°40	14° 6	24°23	2°25	18°41	19°46	3°14	6°51	16°36	14°12	15°55	6°21	19°39	S 7
S 8	13 41 27	27° 9'52	4°J 2	15°40	25°35	3° 9	18°39	19°43	3°17	6°52	16°35	14° 9	15°52	6°28	19°35	S 8
M 9	13 45 24	28° 8'13	18°26	17°10	26°47	3°53	18°36	19°40	3°20	6°53	16°34	14°D 9	15°49	6°34	19°30	M 9
T 10	13 49 20	29° 6'34	2°B48	18°36	28° 0	4°36	18°34	19°37	3°23	6°53	16°34	14°10	15°46	6°41	19°26	T 10
W11	13 53 17	0°B 4'52	17° 3	19°58	29°12	5°20	18°31	19°34	3°26	6°54	16°33	14°11	15°43	6°48	19°21	W11
T 12	13 57 13	1° 3'09	1°M12	21°15	0°Y24	6° 4	18°28	19°31	3°29	6°55	16°32	14°R12	15°39	6°54	19°16	T 12
F 13	14 1 10	2° 1'25	15°12	22°28	1°37	6°48	18°25	19°28	3°33	6°55	16°31	14°11	15°36	7° 1	19°12	F 13
S 14	14 5 6	2°59'39	29° 2	23°36	2°49	7°31	18°22	19°25	3°36	6°56	16°30	14° 8	15°33	7° 8	19° 7	S 14
S 15	14 9 3	3°57'51	12°K42	24°39	4° 2	8°15	18°19	19°22	3°39	6°56	16°29	14° 4	15°30	7°14	19° 3	S 15
M16	14 13 0	4°56'02	26°10	25°37	5°14	8°59	18°15	19°20	3°42	6°57	16°28	13°58	15°27	7°21	18°59	M16
T 17	14 16 56	5°54'12	9°Y25	26°30	6°27	9°42	18°11	19°17	3°45	6°57	16°26	13°52	15°24	7°28	18°54	T 17
W18	14 20 53	6°52'19	22°26	27°19	7°39	10°25	18° 7	19°15	3°48	6°58	16°25	13°46	15°20	7°34	18°50	W18
T 19	14 24 49	7°50'26	5°B13	28° 2	8°51	11° 9	18° 3	19°13	3°51	6°58	16°24	13°40	15°17	7°41	18°46	T 19
F 20	14 28 46	8°48'30	17°46	28°40	10° 4	11°52	17°59	19°10	3°54	6°58	16°23	13°36	15°14	7°47	18°41	F 20
S 21	14 32 42	9°46'33	0°J 5	29°14	11°16	12°35	17°54	19° 8	3°57	6°59	16°22	13°33	15°11	7°54	18°37	S 21
S 22	14 36 39	10°44'34	12°12	29°42	12°29	13°19	17°50	19° 6	4° 0	6°59	16°21	13°D32	15° 8	8° 1	18°33	S 22
M23	14 40 35	11°42'34	24° 9	0°J 5	13°41	14° 2	17°45	19° 4	4° 3	6°59	16°19	13°33	15° 5	8° 7	18°29	M23
T 24	14 44 32	12°40'31	6°B 0	0°22	14°54	14°45	17°40	19° 2	4° 5	6°59	16°18	13°34	15° 1	8°14	18°25	T 24
W25	14 48 29	13°38'27	17°49	0°35	16° 7	15°28	17°35	19° 1	4° 8	7° 0	16°17	13°36	14°58	8°21	18°21	W25
T 26	14 52 25	14°36'21	29°39	0°42	17°19	16°11	17°30	18°59	4°11	7° 0	16°16	13°38	14°55	8°27	18°17	T 26
F 27	14 56 22	15°34'14	11°B36	0°R45	18°32	16°54	17°25	18°57	4°14	7° 0	16°14	13°R39	14°52	8°34	18°13	F 27
S 28	15 0 18	16°32'04	23°45	0°42	19°44	17°37	17°19	18°56	4°17	7° 0	16°13	13°38	14°49	8°41	18°10	S 28
S 29	15 4 15	17°29'53	6°M10	0°35	20°57	18°20	17°13	18°54	4°19	7° 0	16°12	13°37	14°45	8°47	18° 6	S 29
M30	15 8 11	18°B27'40	18°M56	0°J24	22°Y 9	19°B 3	17°J 8	18°M53	4°Y22	7°R 0	16°J10	13°J35	14°J42	8°B54	18°J 2	M30

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	7n58	7n32	4s54	13n44	1n 8	6s19	1s21	10n34	0s14	22s23	0n39	6n12	2n29	0n31	0s41	S 1
M 2	8 20	2 46	5 6	14 33	1 18	5 53	1 22	10 50	0 14	22 23	0 39	6 14	2 29	0 33	0 41	M 2
T 3	8 42	2s16	5 2	15 20	1 29	5 26	1 24	11 7	0 13	22 23	0 39	6 15	2 29	0 34	0 41	T 3
W 4	9 4	7 19	4 42	16 5	1 39	4 59	1 26	11 23	0 12	22 22	0 39	6 16	2 29	0 35	0 41	W 4
T 5	9 25	12 8	4 6	16 48	1 48	4 32	1 27	11 39	0 12	22 22	0 39	6 17	2 29	0 37	0 41	T 5
F 6	9 47	16 24	3 13	17 28	1 57	4 4	1 29	11 55	0 11	22 22	0 39	6 19	2 28	0 38	0 41	F 6
S 7	10 8	19 45	2 8	18 6	2 5	3 37	1 30	12 11	0 10	22 22	0 39	6 20	2 28	0 39	0 41	S 7
S 8	10 29	21 54	0 54	18 41	2 13	3 9	1 31	12 26	0 10	22 22	0 39	6 21	2 28	0 41	0 41	S 8
M 9	10 50	22 37	0n23	19 14	2 19	2 42	1 33	12 42	0 9	22 22	0 39	6 22	2 28	0 42	0 41	M 9
T 10	11 11	21 49	1 39	19 44	2 25	2 14	1 34	12 57	0 9	22 21	0 39	6 23	2 28	0 43	0 41	T 10
W11	11 32	19 37	2 49	20 12	2 30	1 46	1 35	13 13	0 8	22 21	0 39	6 24	2 28	0 44	0 41	W11
T 12	11 52	16 15	3 47	20 36	2 35	1 18	1 36	13 28	0 7	22 21	0 39	6 25	2 28	0 46	0 41	T 12
F 13	12 13	12 0	4 32	20 59	2 38	0 50	1 37	13 43	0 7	22 21	0 39	6 26	2 27	0 47	0 41	F 13
S 14	12 33	7 10	4 59	21 19	2 41	0 22	1 37	13 58	0 6	22 20	0 39	6 27	2 27	0 48	0 41	S 14
S 15	12 52	2 2	5 10	21 36	2 42	0n 6	1 38	14 13	0 5	22 20	0 39	6 28	2 27	0 49	0 41	S 15
M16	13 12	3n 6	5 3	21 51	2 43	0 34	1 39	14 27	0 5	22 20	0 39	6 29	2 27	0 50	0 41	M16
T 17	13 31	8 2	4 40	22 3	2 42	1 3	1 39	14 42	0 4	22 20	0 39	6 30	2 27	0 52	0 41	T 17
W18	13 51	12 30	4 3	22 13	2 40	1 31	1 40	14 56	0 3	22 19	0 39	6 31	2 27	0 53	0 41	W18
T 19	14 10	16 20	3 14	22 20	2 38	1 59	1 40	15 10	0 3	22 19	0 39	6 32	2 27	0 54	0 41	T 19
F 20	14 28	19 21	2 16	22 25	2 34	2 27	1 41	15 24	0 2	22 19	0 39	6 32	2 26	0 55	0 41	F 20
S 21	14 47	21 25	1 13	22 28	2 29	2 55	1 41	15 38	0 1	22 18	0 39	6 33	2 26	0 56	0 41	S 21
S 22	15 5	22 26	0 7	22 28	2 23	3 24	1 41	15 52	0 1	22 18	0 39	6 34	2 26	0 57	0 42	S 22
M23	15 23	22 25	0s58	22 26	2 16	3 52	1 41	16 5	0 0	22 17	0 39	6 34	2 26	0 59	0 42	M23
T 24	15 41	21 22	2 0	22 22	2 8	4 20	1 41	16 19	0n 0	22 17	0 39	6 35	2 26	1 0	0 42	T 24
W25	15 58	19 23	2 57	22 15	1 58	4 48	1 41	16 32	0 1	22 17	0 39	6 35	2 26	1 1	0 42	W25
T 26	16 16	16 35	3 47	22 6	1 48	5 16	1 41	16 45	0 2	22 16	0 39	6 36	2 25	1 2	0 42	T 26
F 27	16 33	13 4	4 27	21 56	1 36	5 43	1 41	16 58	0 2	22 16	0 39	6 36	2 25	1 3	0 42	F 27
S 28	16 49	8 59	4 56	21 43	1 24	6 11	1 41	17 11	0 3	22 15	0 39	6 37	2 25	1 4	0 42	S 28
S 29	17 6	4 26	5 12	21 28	1 10	6 39	1 40	17 23	0 4	22 15	0 39	6 37	2 25	1 5	0 42	S 29
M30	17n22	0s25	5s13	21n12	0n56	7n 6	1s40	17n36	0n 4	22s14	0n39	6n38	2n25	1n 6	0s42	M30

Julian Day Number = 2272310.5, Delta T = 271.34 sec

Ecliptic obliquity = 23°30'09, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'35, Lahiri = 17°00'35 Julian Calendar 1 Apr. 1509 == Greg. Calendar 11 Apr. 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

MAY 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 12 8	19°25'25	2°5 5	0°R 8	23°V22	19°R46	17°R 2	18°R52	4°V25	7°R 0	16°R 9	13°R32	14°R39	9°S 1	17°R59	T 1
W 2	15 16 4	20°23'08	15°39	29°R48	24°35	20°28	16°R56	18°R51	4°27	7°R 0	16°R 8	13°R28	14°36	9° 7	17°R55	W 2
T 3	15 20 1	21°20'51	29°37	29°25	25°47	21°11	16°50	18°50	4°30	7° 0	16° 6	13°25	14°33	9°14	17°52	T 3
F 4	15 23 57	22°18'31	13°R57	28°58	27° 0	21°54	16°43	18°49	4°33	7° 0	16° 5	13°23	14°30	9°21	17°49	F 4
S 5	15 27 54	23°16'11	28°33	28°29	28°12	22°36	16°37	18°48	4°35	7° 0	16° 4	13°21	14°26	9°27	17°45	S 5
S 6	15 31 51	24°13'49	13°R19	27°58	29°25	23°19	16°31	18°48	4°38	6°59	16° 2	13°D21	14°23	9°34	17°42	S 6
M 7	15 35 47	25°11'26	28° 8	27°25	0°R38	24° 1	16°24	18°47	4°40	6°59	16° 1	13°21	14°20	9°41	17°39	M 7
T 8	15 39 44	26° 9'01	12°S53	26°52	1°51	24°44	16°17	18°47	4°42	6°59	15°59	13°22	14°17	9°47	17°36	T 8
W 9	15 43 40	27° 6'36	27°28	26°17	3° 3	25°26	16°11	18°46	4°45	6°59	15°58	13°23	14°14	9°54	17°33	W 9
T 10	15 47 37	28° 4'10	11°R49	25°43	4°16	26° 8	16° 4	18°46	4°47	6°58	15°56	13°24	14°11	10° 1	17°31	T 10
F 11	15 51 33	29° 1'43	25°53	25°10	5°29	26°50	15°57	18°46	4°50	6°58	15°55	13°R25	14° 7	10° 7	17°28	F 11
S 12	15 55 30	29°59'15	9°R39	24°38	6°41	27°33	15°50	18°D46	4°52	6°58	15°53	13°25	14° 4	10°14	17°25	S 12
S 13	15 59 27	0°II56'46	23° 7	24° 9	7°54	28°15	15°43	18°46	4°54	6°57	15°52	13°24	14° 1	10°21	17°23	S 13
M14	16 3 23	1°54'17	6°V18	23°41	9° 7	28°57	15°36	18°46	4°56	6°57	15°50	13°23	13°58	10°27	17°20	M14
T 15	16 7 20	2°51'46	19°13	23°16	10°20	29°39	15°28	18°46	4°59	6°56	15°49	13°21	13°55	10°34	17°18	T 15
W16	16 11 16	3°49'15	1°R53	22°55	11°33	0°II21	15°21	18°46	5° 1	6°56	15°47	13°20	13°51	10°41	17°16	W16
T 17	16 15 13	4°46'43	14°21	22°37	12°45	1° 3	15°14	18°47	5° 3	6°55	15°46	13°19	13°48	10°47	17°14	T 17
F 18	16 19 9	5°44'10	26°37	22°22	13°58	1°45	15° 6	18°47	5° 5	6°55	15°44	13°18	13°45	10°54	17°12	F 18
S 19	16 23 6	6°41'36	8°II43	22°12	15°11	2°27	14°59	18°48	5° 7	6°54	15°43	13°D18	13°42	11° 1	17°10	S 19
S 20	16 27 2	7°39'01	20°41	22° 6	16°24	3° 9	14°51	18°49	5° 9	6°54	15°41	13°18	13°39	11° 7	17° 8	S 20
M21	16 30 59	8°36'26	2°S34	22°D 5	17°37	3°50	14°44	18°50	5°11	6°53	15°39	13°18	13°36	11°14	17° 6	M21
T 22	16 34 56	9°33'49	14°23	22° 7	18°50	4°32	14°36	18°51	5°13	6°52	15°38	13°18	13°32	11°21	17° 4	T 22
W23	16 38 52	10°31'11	26°11	22°15	20° 3	5°14	14°28	18°52	5°15	6°52	15°36	13°19	13°29	11°27	17° 3	W23
T 24	16 42 49	11°28'33	8°R 2	22°27	21°16	5°56	14°21	18°53	5°16	6°51	15°35	13°19	13°26	11°34	17° 2	T 24
F 25	16 46 45	12°25'53	19°59	22°43	22°28	6°37	14°13	18°54	5°18	6°50	15°33	13°19	13°23	11°41	17° 0	F 25
S 26	16 50 42	13°23'12	2°R 7	23° 4	23°41	7°19	14° 6	18°55	5°20	6°49	15°32	13°R19	13°20	11°47	16°59	S 26
S 27	16 54 38	14°20'30	14°31	23°29	24°54	8° 0	13°58	18°57	5°22	6°49	15°30	13°D19	13°16	11°54	16°58	S 27
M28	16 58 35	15°17'48	27°13	23°59	26° 7	8°42	13°50	18°58	5°23	6°48	15°28	13°19	13°13	12° 1	16°57	M28
T 29	17 2 31	16°15'04	10°R18	24°33	27°20	9°23	13°43	19° 0	5°25	6°47	15°27	13°19	13°10	12° 7	16°56	T 29
W30	17 6 28	17°12'20	23°49	25°11	28°33	10° 4	13°35	19° 2	5°27	6°46	15°25	13°20	13° 7	12°14	16°55	W30
T 31	17 10 25	18°II 9'34	7°R46	25°R53	29°R46	10°II46	13°R27	19°R 4	5°V28	6°R45	15°R24	13°R20	13°R 4	12°R21	16°R55	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	17n38	5s23	4s58	20n54	0n41	7n34	1s39	17n48	0n 5	22s14	0n38	6n38	2n24	1n 7	0s42	18s32
W 2	17 53	10 16	4 27	20 34	0 25	8 1	1 39	18 0	0 6	22 13	0 38	6 38	2 24	1 8	0 42	18 32
T 3	18 9	14 46	3 38	20 13	0 8	8 28	1 38	18 12	0 6	22 13	0 38	6 38	2 24	1 9	0 42	18 32
F 4	18 24	18 32	2 35	19 50	0s 9	8 55	1 38	18 24	0 7	22 12	0 38	6 38	2 24	1 10	0 42	18 32
S 5	18 38	21 12	1 21	19 27	0 26	9 21	1 37	18 35	0 7	22 12	0 38	6 39	2 24	1 11	0 42	18 32
S 6	18 53	22 28	0 0	19 3	0 44	9 48	1 36	18 47	0 8	22 11	0 38	6 39	2 23	1 12	0 42	18 32
M 7	19 7	22 8	1n21	18 39	1 1	10 14	1 35	18 58	0 9	22 10	0 38	6 39	2 23	1 13	0 42	18 32
T 8	19 20	20 17	2 36	18 14	1 18	10 40	1 34	19 9	0 9	22 10	0 38	6 39	2 23	1 14	0 42	18 32
W 9	19 34	17 7	3 41	17 50	1 36	11 6	1 33	19 20	0 10	22 9	0 38	6 39	2 23	1 15	0 42	18 32
T 10	19 47	12 58	4 30	17 25	1 52	11 32	1 32	19 30	0 10	22 9	0 38	6 39	2 23	1 16	0 42	18 32
F 11	20 0	8 11	5 2	17 2	2 8	11 57	1 31	19 41	0 11	22 8	0 38	6 38	2 23	1 17	0 42	18 33
S 12	20 12	3 6	5 16	16 40	2 23	12 22	1 30	19 51	0 12	22 7	0 38	6 38	2 22	1 18	0 42	18 33
S 13	20 24	2n 2	5 12	16 18	2 38	12 47	1 29	20 1	0 12	22 7	0 38	6 38	2 22	1 19	0 42	18 33
M14	20 36	6 58	4 52	15 59	2 51	13 12	1 27	20 11	0 13	22 6	0 38	6 38	2 22	1 20	0 42	18 33
T 15	20 47	11 30	4 17	15 41	3 4	13 36	1 26	20 21	0 14	22 5	0 37	6 38	2 22	1 20	0 42	18 33
W16	20 58	15 26	3 30	15 24	3 15	14 0	1 24	20 31	0 14	22 5	0 37	6 37	2 21	1 21	0 42	18 33
T 17	21 9	18 38	2 34	15 10	3 25	14 23	1 23	20 40	0 15	22 4	0 37	6 37	2 21	1 22	0 42	18 33
F 18	21 19	20 56	1 31	14 58	3 34	14 47	1 21	20 49	0 15	22 3	0 37	6 37	2 21	1 23	0 42	18 33
S 19	21 29	22 14	0 25	14 48	3 42	15 10	1 20	20 58	0 16	22 2	0 37	6 36	2 21	1 24	0 42	18 34
S 20	21 39	22 30	0s41	14 40	3 48	15 32	1 18	21 7	0 17	22 2	0 37	6 36	2 21	1 24	0 42	18 34
M21	21 48	21 44	1 45	14 35	3 53	15 54	1 17	21 15	0 17	22 1	0 37	6 35	2 20	1 25	0 42	18 34
T 22	21 57	20 0	2 44	14 31	3 57	16 16	1 15	21 24	0 18	22 0	0 37	6 34	2 20	1 26	0 42	18 34
W23	22 5	17 26	3 36	14 30	4 0	16 38	1 13	21 32	0 18	21 59	0 37	6 34	2 20	1 27	0 42	18 34
T 24	22 13	14 8	4 20	14 32	4 2	16 59	1 11	21 40	0 19	21 59	0 36	6 33	2 20	1 27	0 42	18 34
F 25	22 21	10 14	4 52	14 35	4 3	17 19	1 9	21 48	0 20	21 58	0 36	6 33	2 20	1 28	0 42	18 35
S 26	22 28	5 54	5 12	14 41	4 2	17 39	1 7	21 55	0 20	21 57	0 36	6 32	2 19	1 29	0 42	18 35
S 27	22 35	1 14	5 18	14 48	4 1	17 59	1 5	22 2	0 21	21 56	0 36	6 31	2 19	1 29	0 42	18 35
M28	22 41	3s36	5 8	14 58	3 59	18 18	1 3	22 10	0 21	21 56	0 36	6 30	2 19	1 30	0 42	18 35
T 29	22 47	8 26	4 43	15 9	3 55	18 37	1 1	22 17	0 22	21 55	0 36	6 29	2 19	1 31	0 42	18 36
W30	22 53	13 1	4 2	15 22	3 51	18 56	0 59	22 23	0 23	21 54	0 36	6 29	2 19	1 31	0 42	18 36
T 31	22n58	17s 3	3s 5	15n37	3s46	19n13	0s57	22n30	0n23	21s53	0n36	6n28	2n18	1n32	0s42	18s36

Julian Day Number = 2272340.5, Delta T = 271.16 sec

Ecliptic obliquity = 23°30'09, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'39, Lahiri = 17°00'39 Julian Calendar 1 May 1509 == Greg. Calendar 11 May 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

JULY 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 12 38	17°42'45	0°31'12	15°49'49	7°38'38	1°43'43	10°R 6	20°46'46	5°53'53	6°R 6	14°R38	12°R59	11°R25	15°47'47	17°42'29	S 1
M 2	19 16 34	18°39'58	15°24'24	17°57'57	8°52'52	2°23'23	10°R 2	20°51'51	5°R53	6°R 4	14°R37	12°R57	11°22'22	15°54'54	17°31'31	M 2
T 3	19 20 31	19°37'11	0°33'39	20°5'5	10°5'5	3°3'3	9°57'57	20°56'56	5°53'53	6°3'3	14°36'36	12°53'53	11°19'19	16°1'1	17°34'34	T 3
W 4	19 24 28	20°34'24	15°47'47	22°12'12	11°19'19	3°43'43	9°53'53	21°0'0	5°53'53	6°1'1	14°35'35	12°48'48	11°16'16	16°7'7	17°37'37	W 4
T 5	19 28 24	21°31'38	0°38'38	24°18'18	12°32'32	4°23'23	9°49'49	21°5'5	5°52'52	6°0'0	14°33'33	12°42'42	11°13'13	16°14'14	17°40'40	T 5
F 6	19 32 21	22°28'53	15°6'6	26°24'24	13°46'46	5°2'2	9°45'45	21°10'10	5°52'52	5°58'58	14°32'32	12°37'37	11°9'9	16°21'21	17°44'44	F 6
S 7	19 36 17	23°26'09	29°5'5	28°27'27	15°0'0	5°42'42	9°41'41	21°15'15	5°52'52	5°57'57	14°31'31	12°33'33	11°6'6	16°27'27	17°47'47	S 7
S 8	19 40 14	24°23'26	12°36'36	0°30'30	16°13'13	6°22'22	9°37'37	21°20'20	5°52'52	5°55'55	14°30'30	12°31'31	11°3'3	16°34'34	17°50'50	S 8
M 9	19 44 10	25°20'44	25°40'40	2°31'31	17°27'27	7°1'1	9°34'34	21°25'25	5°51'51	5°53'53	14°29'29	12°D30	11°0'0	16°41'41	17°54'54	M 9
T 10	19 48 7	26°18'02	8°20'20	4°31'31	18°41'41	7°41'41	9°31'31	21°31'31	5°51'51	5°52'52	14°28'28	12°31'31	10°57'57	16°47'47	17°58'58	T 10
W11	19 52 3	27°15'22	20°41'41	6°29'29	19°55'55	8°20'20	9°28'28	21°36'36	5°51'51	5°50'50	14°27'27	12°32'32	10°54'54	16°54'54	18°1'1	W11
T 12	19 56 0	28°12'43	2°11'11	8°25'25	21°9'9	9°0'0	9°25'25	21°41'41	5°50'50	5°49'49	14°26'26	12°33'33	10°50'50	17°1'1	18°5'5	T 12
F 13	19 59 57	29°10'05	14°44'44	10°20'20	22°22'22	9°39'39	9°22'22	21°47'47	5°50'50	5°47'47	14°25'25	12°R34	10°47'47	17°7'7	18°9'9	F 13
S 14	20 3 53	0°30'30	7°27'27	26°34'34	12°14'14	23°36'36	10°19'19	21°52'52	5°49'49	5°45'45	14°24'24	12°33'33	10°44'44	17°14'14	18°13'13	S 14
S 15	20 7 50	1°4'51	8°22'22	14°5'5	24°50'50	10°58'58	9°17'17	21°58'58	5°49'49	5°44'44	14°23'23	12°29'29	10°41'41	17°21'21	18°17'17	S 15
M16	20 11 46	2°2'16	20°10'10	15°55'55	26°4'4	11°37'37	9°15'15	22°3'3	5°48'48	5°42'42	14°22'22	12°24'24	10°38'38	17°27'27	18°21'21	M16
T 17	20 15 43	2°59'42	2°31'31	17°44'44	27°18'18	12°17'17	9°13'13	22°9'9	5°47'47	5°41'41	14°21'21	12°16'16	10°34'34	17°34'34	18°26'26	T 17
W18	20 19 39	3°57'08	13°57'08	19°30'30	28°32'32	12°56'56	9°11'11	22°14'14	5°46'46	5°39'39	14°20'20	12°7'7	10°31'31	17°41'41	18°30'30	W18
T 19	20 23 36	4°54'36	25°59'59	21°16'16	29°46'46	13°35'35	9°9'9	22°20'20	5°46'46	5°37'37	14°19'19	11°58'58	10°28'28	17°47'47	18°35'35	T 19
F 20	20 27 32	5°52'04	8°11'11	22°59'59	1°30'30	14°14'14	9°8'8	22°26'26	5°45'45	5°36'36	14°18'18	11°48'48	10°25'25	17°54'54	18°39'39	F 20
S 21	20 31 29	6°49'33	20°27'27	24°41'41	2°14'14	14°53'53	9°6'6	22°32'32	5°44'44	5°34'34	14°17'17	11°39'39	10°22'22	18°1'1	18°44'44	S 21
S 22	20 35 26	7°47'03	2°57'57	26°21'21	3°28'28	15°32'32	9°5'5	22°38'38	5°43'43	5°32'32	14°17'17	11°32'32	10°19'19	18°7'7	18°49'49	S 22
M23	20 39 22	8°44'34	15°40'40	28°0'0	4°42'42	16°12'12	9°4'4	22°44'44	5°42'42	5°31'31	14°16'16	11°27'27	10°15'15	18°14'14	18°54'54	M23
T 24	20 43 19	9°42'06	28°40'40	29°37'37	5°56'56	16°51'51	9°4'4	22°50'50	5°41'41	5°29'29	14°15'15	11°25'25	10°12'12	18°21'21	18°58'58	T 24
W25	20 47 15	10°39'39	11°11'11	7°10'10	17°30'30	17°30'30	9°3'3	22°56'56	5°40'40	5°27'27	14°15'15	11°D24	10°9'9	18°27'27	19°3'3	W25
T 26	20 51 12	11°37'13	25°37'37	2°47'47	8°24'24	18°8'8	9°3'3	23°2'2	5°39'39	5°26'26	14°14'14	11°25'25	10°6'6	18°34'34	19°9'9	T 26
F 27	20 55 8	12°34'47	9°24'47	4°19'19	9°38'38	18°47'47	9°D 2	23°8'8	5°38'38	5°24'24	14°13'13	11°R25	10°3'3	18°41'41	19°14'14	F 27
S 28	20 59 5	13°32'23	24°5'5	5°50'50	10°52'52	19°26'26	9°2'2	23°14'14	5°37'37	5°23'23	14°13'13	11°25'25	10°0'0	18°47'47	19°19'19	S 28
S 29	21 3 1	14°30'00	8°51'51	7°19'19	12°7'7	20°5'5	9°3'3	23°21'21	5°35'35	5°21'21	14°12'12	11°22'22	9°56'56	18°54'54	19°24'24	S 29
M30	21 6 58	15°27'37	23°53'53	8°47'47	13°21'21	20°44'44	9°3'3	23°27'27	5°34'34	5°19'19	14°11'11	11°17'17	9°53'53	19°1'1	19°30'30	M30
T 31	21 10 55	16°25'16	9°31'31	10°13'13	14°35'35	21°23'23	9°R 4	23°34'34	5°33'33	5°18'18	14°11'11	11°R10	9°50'50	19°7'7	19°35'35	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	22n20	21s58	1n33	23n57	1n24	23n33	0n17	24n10	0n40	21s31	0n30	5n42	2n13	1n41	0s43	S 1
M 2	22 12	19 50	2 48	23 46	1 29	23 31	0 19	24 10	0 41	21 31	0 30	5 40	2 13	1 41	0 43	M 2
T 3	22 4	16 19	3 51	23 33	1 34	23 28	0 21	24 9	0 41	21 30	0 30	5 38	2 12	1 40	0 44	T 3
W 4	21 55	11 44	4 37	23 17	1 38	23 25	0 24	24 9	0 42	21 30	0 30	5 36	2 12	1 40	0 44	W 4
T 5	21 47	6 32	5 4	22 59	1 42	23 20	0 26	24 8	0 42	21 30	0 30	5 34	2 12	1 40	0 44	T 5
F 6	21 37	1 7	5 10	22 38	1 44	23 15	0 28	24 7	0 43	21 29	0 29	5 32	2 12	1 40	0 44	F 6
S 7	21 28	4n11	4 58	22 16	1 46	23 10	0 30	24 6	0 44	21 29	0 29	5 30	2 12	1 40	0 44	S 7
S 8	21 18	9 7	4 29	21 51	1 48	23 3	0 33	24 5	0 44	21 28	0 29	5 27	2 12	1 40	0 44	S 8
M 9	21 7	13 28	3 47	21 24	1 48	22 56	0 35	24 3	0 45	21 28	0 29	5 25	2 11	1 40	0 44	M 9
T 10	20 57	17 5	2 55	20 56	1 48	22 48	0 37	24 2	0 45	21 28	0 29	5 23	2 11	1 40	0 44	T 10
W11	20 46	19 50	1 56	20 26	1 47	22 40	0 39	24 0	0 46	21 28	0 28	5 21	2 11	1 39	0 44	W11
T 12	20 34	21 38	0 53	19 54	1 46	22 31	0 41	23 58	0 46	21 27	0 28	5 19	2 11	1 39	0 44	T 12
F 13	20 23	22 26	0s12	19 22	1 44	22 21	0 43	23 55	0 47	21 27	0 28	5 16	2 11	1 39	0 44	F 13
S 14	20 11	22 12	1 15	18 48	1 41	22 11	0 45	23 53	0 47	21 27	0 28	5 14	2 11	1 39	0 44	S 14
S 15	19 58	21 0	2 15	18 13	1 38	21 59	0 47	23 50	0 48	21 27	0 28	5 12	2 11	1 39	0 44	S 15
M16	19 45	18 52	3 9	17 36	1 34	21 48	0 49	23 47	0 49	21 27	0 27	5 10	2 11	1 38	0 44	M16
T 17	19 32	15 57	3 54	17 0	1 30	21 35	0 51	23 44	0 48	21 27	0 27	5 7	2 10	1 38	0 44	T 17
W18	19 19	12 22	4 30	16 22	1 26	21 22	0 53	23 41	0 49	21 26	0 27	5 5	2 10	1 38	0 44	W18
T 19	19 5	8 17	4 54	15 44	1 21	21 9	0 55	23 38	0 50	21 26	0 27	5 2	2 10	1 37	0 44	T 19
F 20	18 51	3 49	5 5	15 5	1 16	20 54	0 57	23 34	0 50	21 26	0 27	5 0	2 10	1 37	0 44	F 20
S 21	18 37	0s50	5 12	14 25	1 10	20 40	0 58	23 30	0 51	21 26	0 26	4 58	2 10	1 37	0 44	S 21
S 22	18 22	5 32	4 45	13 46	1 4	20 24	1 0	23 26	0 51	21 26	0 26	4 55	2 10	1 36	0 44	S 22
M23	18 7	10 4	4 13	13 6	0 57	20 8	1 2	23 22	0 52	21 26	0 26	4 53	2 10	1 36	0 44	M23
T 24	17 52	14 16	3 28	12 25	0 50	19 52	1 3	23 18	0 52	21 26	0 26	4 50	2 10	1 35	0 44	T 24
W25	17 36	17 51	2 31	11 45	0 43	19 34	1 5	23 13	0 53	21 27	0 26	4 48	2 9	1 35	0 44	W25
T 26	17 21	20 34	1 24	11 4	0 36	19 17	1 6	23 9	0 53	21 27	0 25	4 45	2 9	1 34	0 44	T 26
F 27	17 5	22 7	0 9	10 23	0 28	18 58	1 8	23 4	0 54	21 27	0 25	4 43	2 9	1 34	0 44	F 27
S 28	16 48	22 15	1n 7	9 43	0 20	18 39	1 9	22 59	0 54	21 27	0 25	4 40	2 9	1 33	0 44	S 28
S 29	16 31	20 52	2 21	9 2	0 12	18 20	1 10	22 54	0 55	21 27	0 25	4 37	2 9	1 33	0 44	S 29
M30	16 15	18 0	3 26	8 21	0 4	18 0	1 12	22 48	0 55	21 28	0 25	4 35	2 9	1 32	0 44	M30
T 31	15n57	13s55	4n17	7n41	0s 5	17n40	1n13	22n43	0n56	21s28	0n24	4n32	2n 9	1n32	0s44	T 31

Julian Day Number = 2272401.5, Delta T = 270.79 sec

Ecliptic obliquity = 23°30'07, Nutation = 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'47, Lahiri = 17°00'47 Julian Calendar 1 July 1509 == Greg. Calendar 11 July 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

AUGUST 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 14 51	17 ⁰² 22'56	24 ⁰⁸ 8	11 ¹⁷ 37	15 ⁰⁴ 49	22 ⁰¹ 1	9 ⁰⁷ 4	23 ¹⁷ 40	5 ^{0R} 31	5 ^{0R} 16	14 ^{0R} 10	11 ^{0R} 1	9 ⁰⁷ 47	19 ⁰¹ 14	19 ⁰⁴ 41	W 1
T 2	21 18 48	18 ⁰² 20'37	9 ⁰⁸ 1	13 ⁰⁰ 0	17 ⁰³ 3	22 ⁰⁴ 0	9 ⁰⁵ 5	23 ⁰⁴ 6	5 ^{0Y} 30	5 ⁰⁸ 15	14 ⁰⁷ 10	10 ⁰⁷ 51	9 ⁰⁴ 44	19 ⁰² 21	19 ⁰⁴ 47	T 2
F 3	21 22 44	19 ⁰¹ 18'20	23 ⁰³ 4	14 ⁰² 1	18 ⁰¹ 8	23 ⁰¹ 9	9 ⁰⁶ 6	23 ⁰³ 53	5 ⁰² 9	5 ⁰¹ 13	14 ⁰¹ 0	10 ⁰⁴ 1	9 ⁰⁴ 40	19 ⁰² 27	19 ⁰⁵ 22	F 3
S 4	21 26 41	20 ⁰¹ 16'04	7 ^{0Y} 39	15 ⁰⁴ 1	19 ⁰³ 2	23 ⁰⁵ 7	9 ⁰⁸ 8	23 ⁰⁵ 9	5 ⁰² 7	5 ⁰¹ 11	14 ⁰⁹ 9	10 ⁰³ 3	9 ⁰³ 37	19 ⁰³ 34	19 ⁰⁵ 58	S 4
S 5	21 30 37	21 ⁰¹ 13'51	21 ⁰¹ 5	16 ⁰⁵ 8	20 ⁰⁴ 6	24 ⁰³ 6	9 ⁰⁹ 9	24 ⁰⁶ 6	5 ⁰² 6	5 ⁰¹ 10	14 ⁰⁹ 9	10 ⁰² 8	9 ⁰³ 34	19 ⁰⁴ 1	20 ⁰⁴ 4	S 5
M 6	21 34 34	22 ⁰² 11'38	4 ⁰⁸ 23	18 ⁰¹ 4	22 ⁰⁰ 0	25 ⁰¹ 4	9 ⁰¹ 1	24 ⁰¹ 3	5 ⁰² 4	5 ⁰⁸ 8	14 ⁰⁸ 8	10 ⁰² 4	9 ⁰³ 31	19 ⁰⁴ 7	20 ⁰¹ 0	M 6
T 7	21 38 30	23 ⁰⁹ 28	17 ⁰⁵ 5	19 ⁰² 8	23 ⁰¹ 5	25 ⁰⁵ 3	9 ⁰¹ 3	24 ⁰¹ 9	5 ⁰² 3	5 ⁰⁷ 7	14 ⁰⁸ 8	10 ⁰² 3	9 ⁰² 28	19 ⁰⁵ 4	20 ⁰¹ 6	T 7
W 8	21 42 27	24 ⁰⁷ 19	29 ⁰² 6	20 ⁰³ 9	24 ⁰² 9	26 ⁰³ 1	9 ⁰¹ 5	24 ⁰² 6	5 ⁰² 1	5 ⁰⁵ 5	14 ⁰⁸ 8	10 ⁰² D23	9 ⁰² 25	20 ⁰¹ 0	20 ⁰² 22	W 8
T 9	21 46 23	25 ⁰⁵ 12	11 ¹¹ 31	21 ⁰⁴ 9	25 ⁰⁴ 3	27 ⁰¹ 0	9 ⁰¹ 7	24 ⁰³ 3	5 ⁰¹ 9	5 ⁰⁴ 4	14 ⁰⁸ 8	10 ⁰² R23	9 ⁰² 21	20 ⁰² 8	20 ⁰² 28	T 9
F 10	21 50 20	26 ⁰³ 08	23 ⁰² 6	22 ⁰⁵ 7	26 ⁰⁵ 8	27 ⁰⁴ 8	9 ⁰¹ 9	24 ⁰⁴ 0	5 ⁰¹ 8	5 ⁰² 2	14 ⁰⁷ 7	10 ⁰² 3	9 ⁰¹ 18	20 ⁰¹ 4	20 ⁰³ 35	F 10
S 11	21 54 17	27 ⁰¹ 04	5 ⁰⁸ 14	24 ⁰³ 3	28 ⁰¹ 2	28 ⁰² 6	9 ⁰² 2	24 ⁰⁴ 6	5 ⁰¹ 6	5 ⁰¹ 1	14 ⁰⁷ 7	10 ⁰² 0	9 ⁰¹ 15	20 ⁰² 1	20 ⁰⁴ 1	S 11
S 12	21 58 13	27 ⁰⁵ 03	17 ⁰² 2	25 ⁰⁶ 6	29 ⁰² 7	29 ⁰⁵ 5	9 ⁰² 5	24 ⁰⁵ 3	5 ⁰¹ 4	4 ⁰⁵ 9	14 ⁰⁷ 7	10 ⁰¹ 5	9 ⁰¹ 12	20 ⁰² 8	20 ⁰⁴ 7	S 12
M13	22 2 10	28 ⁰⁵ 03	28 ⁰⁵ 3	26 ⁰⁶ 6	0 ⁰⁷ 41	29 ⁰⁴ 3	9 ⁰² 7	25 ⁰⁰ 0	5 ⁰¹ 2	4 ⁰⁵ 8	14 ⁰⁷ 7	10 ⁰⁰ 7	9 ⁰⁰ 9	20 ⁰³ 4	20 ⁰⁵ 4	M13
T 14	22 6 6	29 ⁰⁵ 05	10 ⁰⁸ 49	27 ⁰⁵ 5	1 ⁰⁵ 5	0 ⁰⁸ 21	9 ⁰³ 1	25 ⁰⁰ 7	5 ⁰¹ 1	4 ⁰⁵ 6	14 ⁰⁷ 7	9 ⁰⁵ 7	9 ⁰⁰ 6	20 ⁰⁴ 1	21 ⁰⁰ 0	T 14
W15	22 10 3	0 ⁰⁷ 53'09	22 ⁰⁵ 3	28 ⁰⁰ 0	3 ⁰¹ 0	0 ⁰⁵ 9	9 ⁰³ 4	25 ⁰¹ 4	5 ⁰⁰ 9	4 ⁰⁵ 5	14 ⁰⁷ 7	9 ⁰⁴ 4	9 ⁰⁰ 2	20 ⁰⁴ 8	21 ⁰⁰ 7	W15
T 16	22 13 59	1 ⁰⁵ 11'5	5 ⁰⁷ 6	28 ⁰⁵ 3	4 ⁰² 4	1 ⁰³ 7	9 ⁰³ 7	25 ⁰² 1	5 ⁰⁰ 7	4 ⁰⁵ 4	14 ⁰⁷ 7	9 ⁰³ 1	8 ⁰⁵ 9	20 ⁰⁵ 4	21 ⁰¹ 4	T 16
F 17	22 17 56	2 ⁰⁴ 02'22	17 ⁰² 9	29 ⁰⁴ 2	5 ⁰³ 9	2 ⁰¹ 6	9 ⁰⁴ 1	25 ⁰² 8	5 ⁰⁰ 5	4 ⁰⁵ 2	14 ⁰⁷ 7	9 ⁰¹ 7	8 ⁰⁵ 6	21 ⁰⁰ 1	21 ⁰² 0	F 17
S 18	22 21 52	3 ⁰⁴ 73'1	0 ⁰⁸ 2	0 ⁰⁸ 28	6 ⁰⁵ 3	2 ⁰⁵ 4	9 ⁰⁴ 5	25 ⁰³ 5	5 ⁰⁰ 3	4 ⁰⁵ 1	14 ⁰⁷ 7	9 ⁰⁰ 5	8 ⁰⁵ 3	21 ⁰⁰ 8	21 ⁰² 7	S 18
S 19	22 25 49	4 ⁰⁴ 54'1	12 ⁰⁴ 6	1 ⁰¹ 1	8 ⁰⁸ 8	3 ⁰³ 2	9 ⁰⁴ 9	25 ⁰⁴ 2	5 ⁰⁰ 1	4 ⁰⁴ 9	14 ⁰⁷ 7	8 ⁰⁵ 5	8 ⁰⁵ 0	21 ⁰¹ 4	21 ⁰³ 4	S 19
M20	22 29 46	5 ⁰⁴ 53'5	25 ⁰⁴ 1	1 ⁰⁵ 0	9 ⁰² 2	4 ⁰¹ 0	9 ⁰⁵ 3	25 ⁰⁴ 9	4 ⁰⁵ 9	4 ⁰⁴ 8	14 ⁰⁷ 7	8 ⁰⁴ 8	8 ⁰⁴ 6	21 ⁰² 1	21 ⁰⁴ 1	M20
T 21	22 33 42	6 ⁰⁴ 02'07	8 ⁰⁸ 48	2 ⁰² 4	10 ⁰³ 7	4 ⁰⁴ 8	9 ⁰⁵ 7	25 ⁰⁵ 6	4 ⁰⁵ 7	4 ⁰⁴ 7	14 ⁰⁷ 7	8 ⁰⁴ 3	8 ⁰⁴ 3	21 ⁰² 8	21 ⁰⁴ 8	T 21
W22	22 37 39	7 ⁰⁴ 02'22	22 ⁰¹ 0	2 ⁰⁵ 5	11 ⁰⁵ 1	5 ⁰² 6	10 ⁰² 2	26 ⁰⁰ 4	4 ⁰⁵ 5	4 ⁰⁴ 5	14 ⁰⁷ 7	8 ⁰⁴ 2	8 ⁰⁴ 0	21 ⁰³ 4	21 ⁰⁵ 5	W22
T 23	22 41 35	8 ⁰³ 38'38	5 ⁰⁷ 47	3 ⁰² 1	13 ⁰⁶ 6	6 ⁰⁰ 4	10 ⁰⁶ 6	26 ⁰¹ 1	4 ⁰⁵ 3	4 ⁰⁴ 4	14 ⁰⁷ 7	8 ⁰⁴ 1	8 ⁰³ 7	21 ⁰⁴ 1	22 ⁰⁰ 2	T 23
F 24	22 45 32	9 ⁰³ 65'7	19 ⁰⁴ 0	3 ⁰⁴ 2	14 ⁰² 0	6 ⁰⁴ 1	10 ⁰¹ 1	26 ⁰¹ 8	4 ⁰⁵ 1	4 ⁰⁴ 3	14 ⁰⁸ 8	8 ⁰⁴ 1	8 ⁰³ 4	21 ⁰⁴ 8	22 ⁰⁰ 9	F 24
S 25	22 49 28	10 ⁰³ 51'6	3 ⁰⁸ 52	3 ⁰⁵ 8	15 ⁰³ 5	7 ⁰¹ 9	10 ⁰¹ 6	26 ⁰² 5	4 ⁰⁴ 8	4 ⁰⁴ 2	14 ⁰⁸ 8	8 ⁰⁴ 0	8 ⁰³ 1	21 ⁰⁵ 4	22 ⁰¹ 6	S 25
S 26	22 53 25	11 ⁰³ 33'38	18 ⁰¹ 9	4 ⁰⁸ 8	16 ⁰⁵ 0	7 ⁰⁵ 7	10 ⁰² 1	26 ⁰³ 2	4 ⁰⁴ 6	4 ⁰⁴ 0	14 ⁰⁸ 8	8 ⁰³ 7	8 ⁰² 7	22 ⁰⁰ 1	22 ⁰² 3	S 26
M27	22 57 21	12 ⁰³ 20'01	3 ⁰⁸ 1	4 ^{0R} 12	18 ⁰⁴ 4	8 ⁰³ 5	10 ⁰² 7	26 ⁰⁴ 0	4 ⁰⁴ 4	4 ⁰³ 9	14 ⁰⁹ 9	8 ⁰³ 1	8 ⁰² 4	22 ⁰⁰ 8	22 ⁰³ 1	M27
T 28	23 1 18	13 ⁰³ 30'25	17 ⁰⁴ 9	4 ⁰¹ 1	19 ⁰¹ 9	9 ⁰¹ 3	10 ⁰³ 2	26 ⁰⁴ 7	4 ⁰⁴ 2	4 ⁰³ 8	14 ⁰⁹ 9	8 ⁰² 2	8 ⁰² 1	22 ⁰¹ 4	22 ⁰³ 8	T 28
W29	23 5 15	14 ⁰² 85'1	2 ⁰⁸ 38	4 ⁰² 2	20 ⁰³ 3	9 ⁰⁵ 0	10 ⁰³ 8	26 ⁰⁵ 4	4 ⁰⁴ 0	4 ⁰³ 7	14 ⁰⁹ 9	8 ⁰¹ 2	8 ⁰¹ 8	22 ⁰² 1	22 ⁰⁴ 5	W29
T 30	23 9 11	15 ⁰² 72'0	17 ⁰¹ 9	3 ⁰⁴ 8	21 ⁰⁴ 8	10 ⁰² 8	10 ⁰⁴ 3	27 ⁰⁰ 2	4 ⁰³ 7	4 ⁰³ 6	14 ¹⁰ 0	8 ⁰⁰ 0	8 ⁰¹ 5	22 ⁰² 8	22 ⁰⁵ 3	T 30
F 31	23 13 8	16 ⁰² 54'9	1 ^{0Y} 43	3 ⁰⁸ 26	23 ⁰⁷ 3	11 ⁰⁸ 5	10 ⁰⁴ 9	27 ⁰⁷ 9	4 ^{0Y} 35	4 ⁰⁸ 35	14 ⁰⁷ 10	7 ⁰⁷ 49	8 ⁰⁷ 11	22 ⁰³ 35	23 ⁰⁸ 0	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	decl	lat
W 1	15n40	8s57	4n50	7n 1	0s13	17n19	1n14	22n37	0n56	21s28	0n24	4n29	2n 9	1n31	0s44	18s59	0n 1	14s17	8n20	22s 9	21s59	18n53	7s41	0n 2					
T 2	15 22	3 32	5 3	6 21	0 22	16 58	1 15	22 31	0 57	21 28	0 24	4 27	2 9	1 31	0 44	18 59	0 1	14 17	8 20	22 8	21 58	18 51	7 43	0 3					
F 3	15 4	1n57	4 55	5 42	0 31	16 36	1 16	22 25	0 57	21 29	0 24	4 24	2 9	1 30	0 44	18 59	0 1	14 18	8 19	22 6	21 58	18 49	7 45	0 3					
S 4	14 46	7 11	4 30	5 2	0 40	16 13	1 17	22 19	0 57	21 29	0 24	4 22	2 9	1 30	0 44	19 0	0 1	14 18	8 19	22 5	21 57	18 48	7 47	0 3					
S 5	14 28	11 52	3 50	4 24	0 50	15 51	1 18	22 13	0 58	21 30	0 23	4 19	2 8	1 29	0 44	19 0	0 1	14 18	8 19	22 5	21 57	18 46	7 48	0 4					
M 6	14 9	15 49	2 59	3 46	0 59	15 27	1 19	22 6	0 58	21 30	0 23	4 16	2 8	1 28	0 45	19 1	0 1	14 19	8 18	22 4	21 56	18 44	7 50	0 4					
T 7	13 50	18 54	2 1	3 8	1 9	15 4	1 20	21 59	0 59	21 31	0 23	4 13	2 8	1 28	0 45	19 1	0 1	14 19	8 18	22 4	21 56	18 43	7 52	0 4					
W 8	13 31	21 1	0 58	2 31	1 18	14 40	1 21	21 53	0 59	21 31	0 23	4 11	2 8	1 27	0 45	19 1	0 1	14 19	8 17	22 4	21 55	18 41	7 54	0 5					
T 9	13 12	22 7	0s 6	1 55	1 28	14 15	1 21	21 46	1 0	21 32	0 23	4 8	2 8	1 26	0 45	19 2	0 1	14 19	8 17	22 4	21 55	18 40	7 57	0 5					
F 10	12 52	22 12	1 9	1 19	1 37	13 50	1 22	21 38	1 0	21 32	0 23	4 5	2 8	1 26	0 45	19 2	0 1	14 20	8 17	22 4	21 54	18 38	7 59	0 5					
S 11	12 32	21 16	2 8	0 44	1 47	13 25	1 23	21 31	1 1	21 33	0 22	4 2	2 8	1 25	0 45	19 3	0 1	14 20	8 16	22 3	21 54	18 36	8 1	0 5					
S 12	12 12	19 25	3 1	0 10	1 57	13 0	1 23	21 24	1 1	21 33	0 22	4 0	2 8	1 24	0 45	19 3	0 1	14 21	8 16	22 3	21 53	18 35	8 3	0 6					
M13	11 52	16 44	3 47	0s23	2 6	12 34	1 24	21 16	1 2	21 34	0 22	3 57	2 8	1 23	0 45	19 3	0 1	14 21	8 16	22 2	21 53	18 33	8 5	0 6					
T 14	11 32	13 21	4 23	0 55	2 16	12 7	1 24	21 8	1 2	21 35	0 22	3 54	2 8	1 23	0 45	19 4	0 1	14 21	8 15	22 0	21 52	18 31	8 7	0 6					
W15	11 11	9 24	4 47	1 25	2 25	11 41	1 24	21 1	1 3	21 35	0 22	3 51	2 8	1 22	0 45	19 4	0 1	14 22	8 15	21 58	21 52	18 30	8 9	0 7					
T 16	10 51	5 1	4 59	1 55	2 34	11 14	1 25	20 52	1 3	21 36	0 21	3 48	2 8	1 21	0 45	19 4	0 1	14 22	8 15	21 56	21 51	18 28	8 12	0 7					
F 17	10 30	0 24	4 57	2 23	2 44	10 47	1 25	20 44	1 4	21 37	0 21	3 45	2 8	1 20	0 45	19 5	0 1	14 22	8 14	21 54	21 51	18 26	8 14	0 7					
S 18	10 9	4s18	4 41	2 50	2 53	10 19	1 25	20 36	1 4	21 37	0 21	3 43	2 8	1 20	0 45	19 5	0 1	14 23	8 14	21 52	21 50	18 25	8 16	0 8					
S 19	9 47	8 53	4 10	3 15	3 1	9 51	1 25	20 28	1 4	21 38	0 21	3 40	2 8	1 19	0 45	19 5	0 1	14 23	8 13	21 51	21 50	18 23	8 18	0 8					
M20	9 26	13 9	3 26	3 38	3 10	9 23	1 25	20 19	1 5	21 39	0 21	3 37	2 8	1 18	0 45	19 6	0 1	14 23	8 13	21 50	21 49	18 22	8 21	0 8					
T 21	9 4	16 51	2 31	3 59	3 18	8 55	1 25	20 10	1 5	21 40	0 21	3 34	2 8	1 17	0 45	19 6	0 1	14 24	8 13	21 49	21 49	18 20	8 23	0 8					
W22	8 43	19 45	1 26	4 19	3 26	8 26	1 25	20 2	1 6	21 41	0 20	3 31	2 8	1 16	0 45	19 6	0 1	14 24	8 12	21 49	21 48	18 18	8 25	0 9					
T 23	8 21	21 35	0 15	4 36	3 33	7 57	1 24	19 53	1 6	21 41	0 20	3 28	2 7	1 15	0 45	19 7	0 1	14 25	8 12	21 49	21 48	18 17	8 28	0 9					
F 24	7 59	22 8	0n58	4 50	3 40	7 28	1 24	19 43	1 7	21 42	0 20	3 25	2 7	1 15	0 45	19 7	0 1	14 25	8 12	21 48	21 47	18 15	8 30	0 9					
S 25	7 37	21 18	2 9	5 2	3 46	6 59	1 24	19 34	1 7	21 43	0 20	3 23	2 7	1 14	0 45	19 7	0 1	14 25	8 11	21 48	21 47	18 13	8 33	0 10					
S 26	7 15	19 3	3 13	5 11	3 52	6 30	1 23	19 25	1 8	21 44	0 20	3 20	2 7	1 13	0 45	19 8	0 1	14 26	8 11	21 48	21 46	18 11	8 35	0 10					
M27	6 52	15 33	4 5	5 17	3 56	6 0	1 23	19 16	1 8	21 45	0 20	3 17	2 7	1 12	0 45	19 8	0 1	14 26	8 11	21 47	21 46	18 10	8 38	0 10					
T 28	6 30	11 3	4 42	5 20	4 0	5 30	1 23	19 6	1 8	21 46	0 19	3 14	2 7	1 11	0 45	19 8	0 1	14 27	8 10	21 46	21 45	18 8	8 40	0 10					
W29	6 8	5 54	4 59	5 19	4 3	5 0	1 22	18 56	1 9	21 47	0 19	3 11	2 7	1 10	0 45	19 9	0 1	14 27	8 10	21 44	21 45	18 6	8 43	0 11					
T 30	5 45	0 28	4 57	5 15	4 5	4 30	1 21	18 46	1 9	21 48	0 19	3 8	2 7	1 9	0 45	19 9	0 1	14 27	8 9	21 42	21 44	18 5	8 45	0 11					
F 31	5n22	4n54	4n35	5s 6	4s 5	4n 0	1n21	18n37	1n10	21s49	0n19	3n 5	2n 7	1n 8	0s45	19s 9	0n 1	14s28	8n 9	21s40	21s44	18n 3	8s48	0n11					

ASTRODIENST EPHEMERIS for the year 1509
geocentric

SEPTEMBER 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 17 4	17 ¹⁷ 24'21	15 ¹⁷ 45	2°R57	24 ¹⁷ 17	11 ¹⁷ 43	10 ¹⁷ 55	27 ¹⁷ 16	4°R33	4°R34	14 ¹⁷ 11	7°R40	8 ¹⁷ 8	22 ¹⁷ 41	23 ¹⁷ 8	S 1
S 2	23 21 1	18°22'56	29°21	2 ¹⁷ 21	25°32	12°21	11° 2	27°23	4 ¹⁷ 31	4 ¹⁷ 32	14°11	7 ¹⁷ 32	8° 5	22°48	23°16	S 2
M 3	23 24 57	19°21'32	12 ¹⁷ 30	1°39	26°46	12°58	11° 8	27°31	4°28	4°31	14°12	7°28	8° 2	22°55	23°23	M 3
T 4	23 28 54	20°20'10	25°14	0°50	28° 1	13°35	11°15	27°38	4°26	4°30	14°12	7°26	7°59	23° 1	23°31	T 4
W 5	23 32 50	21°18'51	7 ¹⁷ 38	29 ¹⁷ 56	29°16	14°13	11°21	27°46	4°24	4°29	14°13	7°D25	7°56	23° 8	23°39	W 5
T 6	23 36 47	22°17'34	19°44	28°57	0 ¹⁷ 30	14°50	11°28	27°53	4°21	4°28	14°14	7°R25	7°52	23°15	23°46	T 6
F 7	23 40 44	23°16'20	1 ¹⁷ 40	27°54	1°45	15°28	11°35	28° 0	4°19	4°27	14°14	7°25	7°49	23°21	23°54	F 7
S 8	23 44 40	24°15'07	13°30	26°49	3° 0	16° 5	11°42	28° 8	4°17	4°27	14°15	7°23	7°46	23°28	24° 2	S 8
S 9	23 48 37	25°13'57	25°19	25°43	4°15	16°42	11°50	28°15	4°14	4°26	14°16	7°19	7°43	23°35	24°10	S 9
M10	23 52 33	26°12'49	7 ¹⁷ 13	24°37	5°29	17°20	11°57	28°23	4°12	4°25	14°16	7°13	7°40	23°41	24°18	M10
T 11	23 56 30	27°11'44	19°14	23°34	6°44	17°57	12° 5	28°30	4° 9	4°24	14°17	7° 4	7°37	23°48	24°26	T 11
W12	0 0 26	28°10'40	1 ¹⁷ 27	22°35	7°59	18°34	12°12	28°37	4° 7	4°23	14°18	6°53	7°33	23°55	24°34	W12
T 13	0 4 23	29° 9'39	13°52	21°41	9°13	19°11	12°20	28°45	4° 5	4°22	14°19	6°41	7°30	24° 1	24°42	T 13
F 14	0 8 19	0 ¹⁷ 48	8'39	26°30	20°55	10°28	19°48	12°28	28°52	4° 2	4°22	14°20	6°29	7°27	24° 8	F 14
S 15	0 12 16	1° 7'42	9 ¹⁷ 21	20°17	11°43	20°25	12°36	29° 0	4° 0	4°21	14°21	6°17	7°24	24°15	24°58	S 15
S 16	0 16 12	2° 6'47	22°25	19°48	12°58	21° 2	12°44	29° 7	3°57	4°20	14°22	6° 8	7°21	24°21	25° 6	S 16
M17	0 20 9	3° 5'54	5 ¹⁷ 41	19°29	14°12	21°39	12°53	29°14	3°55	4°20	14°23	6° 2	7°17	24°28	25°14	M17
T 18	0 24 6	4° 5'03	19° 7	19°D21	15°27	22°16	13° 1	29°22	3°52	4°19	14°24	5°58	7°14	24°35	25°22	T 18
W19	0 28 2	5° 4'13	2 ¹⁷ 43	19°23	16°42	22°53	13°10	29°29	3°50	4°18	14°25	5°D57	7°11	24°42	25°30	W19
T 20	0 31 59	6° 3'26	16°29	19°36	17°57	23°30	13°19	29°37	3°48	4°18	14°26	5°57	7° 8	24°48	25°39	T 20
F 21	0 35 55	7° 2'40	0 ¹⁷ 34	19°59	19°11	24° 7	13°27	29°44	3°45	4°17	14°27	5°R58	7° 5	24°55	25°47	F 21
S 22	0 39 52	8° 1'56	14°29	20°31	20°26	24°43	13°36	29°51	3°43	4°17	14°28	5°58	7° 2	25° 2	25°55	S 22
S 23	0 43 48	9° 1'14	28°43	21°13	21°41	25°20	13°46	29°59	3°40	4°16	14°29	5°56	6°58	25° 8	26° 3	S 23
M24	0 47 45	10° 0'34	13 ¹⁷ 3	22° 3	22°56	25°57	13°55	0 ¹⁷ 46	3°38	4°16	14°31	5°52	6°55	25°15	26°12	M24
T 25	0 51 41	10°59'55	27°27	23° 1	24°10	26°33	14° 4	0°13	3°36	4°15	14°32	5°46	6°52	25°22	26°20	T 25
W26	0 55 38	11°59'18	11 ¹⁷ 49	24° 6	25°25	27°10	14°14	0°21	3°33	4°15	14°33	5°38	6°49	25°28	26°29	W26
T 27	0 59 35	12°58'43	26° 4	25°17	26°40	27°46	14°23	0°28	3°31	4°15	14°34	5°30	6°46	25°35	26°37	T 27
F 28	1 3 31	13°58'10	10 ¹⁷ 7	26°33	27°54	28°23	14°33	0°35	3°28	4°14	14°36	5°21	6°42	25°42	26°45	F 28
S 29	1 7 28	14°57'39	23°53	27°54	29° 9	28°59	14°43	0°42	3°26	4°14	14°37	5°14	6°39	25°48	26°54	S 29
S 30	1 11 24	15 ¹⁷ 57'10	7 ¹⁷ 19	29 ¹⁷ 20	0 ¹⁷ 24	29 ¹⁷ 36	14 ¹⁷ 52	0 ¹⁷ 50	3 ¹⁷ 24	4 ¹⁷ 14	14 ¹⁷ 38	5 ¹⁷ 8	6 ¹⁷ 36	25 ¹⁷ 55	27 ¹⁷ 2	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	4n59	9n52 3n57	4s54 4s 4	3n30 1n20	18n27 1n10	21s50 0n19	3n 2 2n 7	1n 8 0s45	19s 9 0n 1	14s28 8n 9	21s39 21s43	18n 1 8s50	0n12			
S 2	4 36	14 11 3 7	4 37 4 1	2 59 1 19	18 16 1 11	21 51 0 19	2 59 2 7	1 7 0 45	19 10 0 1	14 29 8 8	21 38 21 43	18 0 8 53	0 12			
M 3	4 13	17 40 2 8	4 16 3 56	2 29 1 18	18 6 1 11	21 52 0 18	2 56 2 7	1 6 0 45	19 10 0 1	14 29 8 8	21 37 21 42	17 58 8 55	0 12			
T 4	3 50	20 10 1 4	3 51 3 50	1 58 1 17	17 56 1 12	21 53 0 18	2 53 2 7	1 5 0 45	19 10 0 1	14 29 8 8	21 36 21 42	17 56 8 58	0 12			
W 5	3 27	21 37 0s 1	3 22 3 42	1 27 1 16	17 45 1 12	21 54 0 18	2 50 2 7	1 4 0 45	19 10 0 1	14 30 8 7	21 36 21 41	17 55 9 0	0 13			
T 6	3 4	22 1 1 5	2 49 3 31	0 57 1 15	17 35 1 12	21 55 0 18	2 47 2 7	1 3 0 45	19 11 0 1	14 30 8 7	21 36 21 41	17 53 9 3	0 13			
F 7	2 41	21 24 2 5	2 13 3 19	0 26 1 14	17 24 1 13	21 56 0 18	2 45 2 7	1 2 0 45	19 11 0 1	14 31 8 7	21 36 21 40	17 51 9 6	0 13			
S 8	2 17	19 51 2 59	1 34 3 5	0s 5 1 13	17 13 1 13	21 58 0 18	2 42 2 7	1 1 0 45	19 11 0 1	14 31 8 6	21 36 21 40	17 49 9 8	0 14			
S 9	1 54	17 26 3 46	0 53 2 49	0 36 1 11	17 3 1 14	21 59 0 17	2 39 2 7	1 0 0 45	19 11 0 1	14 32 8 6	21 35 21 39	17 48 9 11	0 14			
M10	1 31	14 17 4 22	0 11 2 32	1 7 1 10	16 52 1 14	22 0 0 17	2 36 2 7	0 59 0 45	19 12 0 1	14 32 8 5	21 34 21 39	17 46 9 13	0 14			
T 11	1 7	10 32 4 48	0n31 2 14	1 38 1 9	16 41 1 15	22 1 0 17	2 33 2 7	0 58 0 45	19 12 0 1	14 33 8 5	21 33 21 38	17 44 9 16	0 14			
W12	0 44	6 18 5 1	1 12 1 54	2 9 1 7	16 29 1 15	22 2 0 17	2 30 2 8	0 57 0 45	19 12 0 1	14 33 8 5	21 31 21 38	17 42 9 19	0 15			
T 13	0 20	1 45 5 0	1 52 1 34	2 39 1 6	16 18 1 15	22 3 0 17	2 27 2 8	0 56 0 45	19 12 0 1	14 33 8 4	21 29 21 37	17 41 9 22	0 15			
F 14	0s 3	2s57 4 44	2 29 1 14	3 10 1 4	16 7 1 16	22 5 0 17	2 24 2 8	0 55 0 45	19 12 0 1	14 34 8 4	21 27 21 37	17 39 9 24	0 15			
S 15	0 27	7 36 4 14	3 2 0 54	3 41 1 3	15 56 1 16	22 6 0 16	2 21 2 8	0 54 0 45	19 13 0 1	14 34 8 4	21 25 21 36	17 37 9 27	0 16			
S 16	0 51	12 0 3 30	3 32 0 34	4 12 1 1	15 44 1 17	22 7 0 16	2 18 2 8	0 53 0 45	19 13 0 1	14 35 8 3	21 23 21 36	17 35 9 30	0 16			
M17	1 14	15 52 2 34	3 57 0 15	4 42 0 59	15 32 1 17	22 8 0 16	2 15 2 8	0 52 0 45	19 13 0 1	14 35 8 3	21 22 21 35	17 34 9 32	0 16			
T 18	1 38	18 58 1 29	4 17 0n 4	5 13 0 58	15 21 1 18	22 9 0 16	2 12 2 8	0 51 0 45	19 13 0 1	14 36 8 3	21 22 21 35	17 32 9 35	0 16			
W19	2 1	21 2 0 17	4 32 0 21	5 43 0 56	15 9 1 18	22 11 0 16	2 9 2 8	0 50 0 45	19 13 0 1	14 36 8 2	21 21 21 34	17 30 9 38	0 17			
T 20	2 25	21 53 0n56	4 41 0 37	6 14 0 54	14 57 1 18	22 12 0 16	2 7 2 8	0 49 0 45	19 13 0 1	14 37 8 2	21 21 21 33	17 28 9 41	0 17			
F 21	2 48	21 23 2 7	4 46 0 51	6 44 0 52	14 46 1 19	22 13 0 16	2 4 2 8	0 49 0 45	19 13 0 1	14 37 8 2	21 22 21 33	17 27 9 43	0 17			
S 22	3 12	19 33 3 11	4 45 1 4	7 14 0 50	14 34 1 19	22 14 0 15	2 1 2 8	0 48 0 45	19 14 0 1	14 37 8 1	21 22 21 32	17 25 9 46	0 17			
S 23	3 35	16 29 4 4	4 39 1 16	7 44 0 48	14 22 1 20	22 16 0 15	1 58 2 8	0 47 0 45	19 14 0 1	14 38 8 1	21 21 21 32	17 23 9 49	0 18			
M24	3 58	12 26 4 42	4 28 1 26	8 13 0 46	14 10 1 20	22 17 0 15	1 55 2 8	0 46 0 45	19 14 0 1	14 38 8 1	21 21 21 31	17 21 9 52	0 18			
T 25	4 22	7 39 5 3	4 14 1 35	8 43 0 44	13 57 1 21	22 18 0 15	1 52 2 8	0 45 0 45	19 14 0 1	14 39 8 0	21 19 21 31	17 20 9 54	0 18			
W26	4 45	2 28 5 4	3 55 1 42	9 12 0 42	13 45 1 21	22 19 0 15	1 49 2 8	0 44 0 45	19 14 0 1	14 39 8 0	21 18 21 30	17 18 9 57	0 19			
T 27	5 8	2n49 4 47	3 32 1 48	9 41 0 40	13 33 1 21	22 21 0 15	1 47 2 8	0 43 0 45	19 14 0 1	14 40 8 0	21 17 21 30	17 16 10 0	0 19			
F 28	5 31	7 53 4 12	3 6 1 53	10 10 0 38	13 21 1 22	22 22 0 15	1 44 2 8	0 42 0 45	19 14 0 1	14 40 7 59	21 15 21 29	17 14 10 3	0 19			
S 29	5 55	12 26 3 23	2 37 1 56	10 39 0 36	13 8 1 22	22 23 0 14	1 41 2 8	0 41 0 45	19 14 0 1	14 41 7 59	21 14 21 29	17 13 10 5	0 19			
S 30	6s18	16n15 2n24	2n 5 1n59	11s 7 0n33	12n56 1n23	22s24 0n14	1n38 2n 9	0n40 0s45	19s14 0n 1	14s41 7n59	21s13 21s28	17n11 10s 8	0n20			

Julian Day Number = 2272463.5, Delta T = 270.41 sec

Ecliptic obliquity = 23°30'08, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°53'56, Lahiri = 17°00'56 Julian Calendar 1 Sept. 1509 == Greg. Calendar 11 Sept. 1509

ASTRODIENST EPHEMERIS for the year 1509

geocentric

OCTOBER 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	1 15 21	16 ⁵⁵ 44	20 ⁵² 22	0 ⁵⁴ 48	1 ¹¹ 39	0 ¹¹ 12	15 ⁵⁷ 2	0 ⁵⁴ 57	3 ¹² 21	4 ¹² 14	14 ⁵⁷ 40	5 ¹² 5	6 ⁵⁷ 33	26 ⁵² 2	27 ⁵¹ 11	M 1
T 2	1 19 17	17 ⁵⁶ 19	3 ¹¹ 4	2 ¹⁹	2 ⁵³	0 ⁴⁹	15 ¹³	1 ⁴	3 ¹⁹ 19	4 ⁵⁸ 13	14 ⁴¹	5 ¹² 4	6 ³⁰	26 ⁸	27 ¹⁹	T 2
W 3	1 23 14	18 ⁵⁵ 57	15 ²⁸	3 ⁵³	4 ⁸	1 ²⁵	15 ²³	1 ¹¹	3 ¹⁷	4 ¹³	14 ⁴³	5 ¹² 4	6 ²⁷	26 ¹⁵	27 ²⁷	W 3
T 4	1 27 10	19 ⁵⁵ 38	27 ³⁶	5 ²⁸	5 ²³	2 ¹	15 ³³	1 ¹⁹	3 ¹⁴	4 ¹³	14 ⁴⁴	5 ⁶	6 ²³	26 ²²	27 ³⁶	T 4
F 5	1 31 7	20 ⁵⁵ 20	9 ⁵³ 33	7 ⁵	6 ³⁸	2 ³⁷	15 ⁴⁴	1 ²⁶	3 ¹²	4 ¹³	14 ⁴⁵	5 ⁷	6 ²⁰	26 ²⁹	27 ⁴⁴	F 5
S 6	1 35 4	21 ⁵⁵ 05	21 ²⁴	8 ⁴³	7 ⁵²	3 ¹³	15 ⁵⁴	1 ³³	3 ¹⁰	4 ¹³	14 ⁴⁷	5 ¹² 8	6 ¹⁷	26 ³⁵	27 ⁵³	S 6
S 7	1 39 0	22 ⁵⁴ 52	3 ¹² 15	10 ²³	9 ⁷	3 ⁵⁰	16 ⁵	1 ⁴⁰	3 ⁸	4 ¹² 13	14 ⁴⁹	5 ⁷	6 ¹⁴	26 ⁴²	28 ¹	S 7
M 8	1 42 57	23 ⁵⁴ 41	15 ¹⁰	12 ²	10 ²²	4 ²⁶	16 ¹⁵	1 ⁴⁷	3 ⁵	4 ¹³	14 ⁵⁰	5 ⁵	6 ¹¹	26 ⁴⁹	28 ¹⁰	M 8
T 9	1 46 53	24 ⁵⁴ 32	27 ¹⁴	13 ⁴²	11 ³⁷	5 ²	16 ²⁶	1 ⁵⁴	3 ³	4 ¹³	14 ⁵²	5 ¹	6 ⁸	26 ⁵⁵	28 ¹⁸	T 9
W10	1 50 50	25 ⁵⁴ 26	9 ¹¹ 32	15 ²³	12 ⁵¹	5 ³⁸	16 ³⁷	2 ¹	3 ¹	4 ¹³	14 ⁵³	4 ⁵⁵	6 ⁴	27 ²	28 ²⁷	W10
T 11	1 54 46	26 ⁵⁴ 21	22 ⁴	17 ³	14 ⁶	6 ¹³	16 ⁴⁸	2 ⁸	2 ⁵⁹	4 ¹³	14 ⁵⁵	4 ⁴⁸	6 ¹	27 ⁹	28 ³⁵	T 11
F 12	1 58 43	27 ⁵⁴ 19	4 ⁵⁵	18 ⁴⁴	15 ²¹	6 ⁴⁹	16 ⁵⁹	2 ¹⁵	2 ⁵⁷	4 ¹³	14 ⁵⁷	4 ⁴²	5 ⁵⁸	27 ¹⁵	28 ⁴⁴	F 12
S 13	2 2 39	28 ⁵⁴ 19	18 ³	20 ²⁵	16 ³⁶	7 ²⁵	17 ¹⁰	2 ²²	2 ⁵⁴	4 ¹⁴	14 ⁵⁸	4 ³⁵	5 ⁵⁵	27 ²²	28 ⁵³	S 13
S 14	2 6 36	29 ⁵⁴ 21	1 ¹¹ 28	22 ⁵	17 ⁵⁰	8 ¹	17 ²²	2 ²⁹	2 ⁵²	4 ¹⁴	15 ⁰	4 ³⁰	5 ⁵²	27 ²⁹	29 ¹	S 14
M15	2 10 33	0 ¹¹ 54 ²⁵	15 ⁸	23 ⁴⁵	19 ⁵	8 ³⁷	17 ³³	2 ³⁶	2 ⁵⁰	4 ¹⁴	15 ²	4 ²⁷	5 ⁴⁸	27 ³⁵	29 ¹⁰	M15
T 16	2 14 29	1 ⁵⁴ 31	29 ¹	25 ²⁵	20 ²⁰	9 ¹²	17 ⁴⁴	2 ⁴²	2 ⁴⁸	4 ¹⁴	15 ⁴	4 ¹² 26	5 ⁴⁵	27 ⁴²	29 ¹⁸	T 16
W17	2 18 26	2 ⁵⁴ 38	13 ⁵⁷ 2	27 ⁴	21 ³⁵	9 ⁴⁸	17 ⁵⁶	2 ⁴⁹	2 ⁴⁶	4 ¹⁵	15 ⁵	4 ²⁶	5 ⁴²	27 ⁴⁹	29 ²⁷	W17
T 18	2 22 22	3 ⁵⁴ 47	27 ⁹	28 ⁴⁴	22 ⁴⁹	10 ²³	18 ⁸	2 ⁵⁶	2 ⁴⁴	4 ¹⁵	15 ⁷	4 ²⁷	5 ³⁹	27 ⁵⁶	29 ³⁵	T 18
F 19	2 26 19	4 ⁵⁴ 58	11 ⁵⁷ 19	0 ¹¹ 23	24 ⁴	10 ⁵⁹	18 ¹⁹	3 ³	2 ⁴²	4 ¹⁵	15 ⁹	4 ²⁹	5 ³⁶	28 ²	29 ⁴⁴	F 19
S 20	2 30 15	5 ⁵⁵ 11	25 ³¹	2 ¹	25 ¹⁹	11 ³⁴	18 ³¹	3 ⁹	2 ⁴⁰	4 ¹⁶	15 ¹¹	4 ³⁰	5 ³³	28 ⁹	29 ⁵²	S 20
S 21	2 34 12	6 ⁵⁵ 24	9 ⁵⁸ 41	3 ³⁹	26 ³⁴	12 ¹⁰	18 ⁴³	3 ¹⁶	2 ³⁹	4 ¹⁶	15 ¹³	4 ¹² 30	5 ²⁹	28 ¹⁶	0 ¹¹ 1	S 21
M22	2 38 8	7 ⁵⁵ 40	23 ⁴⁹	5 ¹⁷	27 ⁴⁸	12 ⁴⁵	18 ⁵⁵	3 ²²	2 ³⁷	4 ¹⁷	15 ¹⁴	4 ²⁹	5 ²⁶	28 ²²	0 ⁹	M22
T 23	2 42 5	8 ⁵⁵ 56	7 ¹¹ 52	6 ⁵⁴	29 ³	13 ²⁰	19 ⁷	3 ²⁹	2 ³⁵	4 ¹⁷	15 ¹⁶	4 ²⁷	5 ²³	28 ²⁹	0 ¹⁷	T 23
W24	2 46 2	9 ⁵⁶ 14	21 ⁴⁸	8 ³¹	0 ⁵⁷ 18	13 ⁵⁶	19 ¹⁹	3 ³⁵	2 ³³	4 ¹⁸	15 ¹⁸	4 ²⁴	5 ²⁰	28 ³⁶	0 ²⁶	W24
T 25	2 49 58	10 ⁵⁶ 34	5 ¹⁹ 34	10 ⁸	1 ³²	14 ³¹	19 ³¹	3 ⁴²	2 ³¹	4 ¹⁸	15 ²⁰	4 ²¹	5 ¹⁷	28 ⁴²	0 ³⁴	T 25
F 26	2 53 55	11 ⁵⁶ 55	19 ⁹	11 ⁴⁴	2 ⁴⁷	15 ⁶	19 ⁴³	3 ⁴⁸	2 ³⁰	4 ¹⁹	15 ²²	4 ¹⁷	5 ¹⁴	28 ⁴⁹	0 ⁴³	F 26
S 27	2 57 51	12 ⁵⁷ 18	2 ⁵⁸ 31	13 ²⁰	4 ²	15 ⁴¹	19 ⁵⁵	3 ⁵⁴	2 ²⁸	4 ²⁰	15 ²⁴	4 ¹⁴	5 ¹⁰	28 ⁵⁶	0 ⁵¹	S 27
S 28	3 1 48	13 ⁵⁷ 43	15 ³⁶	14 ⁵⁶	5 ¹⁶	16 ¹⁶	20 ⁸	4 ¹	2 ²⁶	4 ²⁰	15 ²⁶	4 ¹²	5 ⁷	29 ²	1 ⁰	S 28
M29	3 5 44	14 ⁵⁸ 09	28 ²⁶	16 ³¹	6 ³¹	16 ⁵¹	20 ²⁰	4 ⁷	2 ²⁵	4 ²¹	15 ²⁸	4 ¹² 11	5 ⁴	29 ⁹	1 ⁸	M29
T 30	3 9 41	15 ⁵⁸ 37	10 ¹¹ 59	18 ⁷	7 ⁴⁶	17 ²⁶	20 ³³	4 ¹³	2 ²³	4 ²²	15 ³⁰	4 ¹¹	5 ¹	29 ¹⁶	1 ¹⁶	T 30
W31	3 13 37	16 ⁵⁹ 06	23 ¹¹ 18	19 ¹¹ 41	9 ⁵⁷ 0	18 ¹¹ 0	20 ⁵⁷ 45	4 ¹² 19	2 ¹⁹ 22	4 ²³	15 ³²	4 ¹² 12	4 ⁵⁸	29 ²³	1 ¹¹ 25	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
M 1	6s40	19n 9	1n19	1n31	2n 0	11s35	0n31	12n43	1n23	22s26	0n14	1n35	2n 9	0n39	0s45	19s14	0n 1	14s42	7n58	21s12	21s28	17n 9	10s11	0n20	
T 2	7 3	21 0	0 11	0 56	2 1	12 3	0 29	12 31	1 23	22 27	0 14	1 32	2 9	0 38	0 45	19 15	0 1	14 42	7 58	21 12	21 27	17 7	10 14	0 20	
W 3	7 26	21 47	0s56	0 18	2 1	12 31	0 26	12 18	1 24	22 28	0 14	1 30	2 9	0 37	0 45	19 15	0 1	14 43	7 58	21 12	21 26	17 5	10 17	0 21	
T 4	7 49	21 30	1 59	0s21	2 0	12 58	0 24	12 6	1 24	22 29	0 14	1 27	2 9	0 36	0 45	19 15	0 1	14 43	7 57	21 12	21 26	17 4	10 19	0 21	
F 5	8 11	20 14	2 56	1 1	1 58	13 25	0 22	11 53	1 25	22 31	0 14	1 24	2 9	0 35	0 45	19 15	0 1	14 44	7 57	21 13	21 25	17 2	10 22	0 21	
S 6	8 34	18 6	3 45	1 42	1 56	13 52	0 19	11 40	1 25	22 32	0 14	1 21	2 9	0 35	0 45	19 15	0 1	14 44	7 57	21 13	21 25	17 0	10 25	0 21	
S 7	8 56	15 12	4 24	2 24	1 53	14 18	0 17	11 28	1 25	22 33	0 13	1 19	2 9	0 34	0 45	19 15	0 1	14 44	7 57	21 13	21 24	16 58	10 28	0 22	
M 8	9 18	11 41	4 52	3 6	1 49	14 44	0 14	11 15	1 26	22 34	0 13	1 16	2 9	0 33	0 45	19 15	0 1	14 45	7 56	21 12	21 24	16 56	10 30	0 22	
T 9	9 40	7 39	5 7	3 48	1 45	15 10	0 12	11 2	1 26	22 35	0 13	1 13	2 9	0 32	0 45	19 15	0 1	14 45	7 56	21 11	21 23	16 55	10 33	0 22	
W10	10 2	3 15	5 9	4 31	1 41	15 35	0 9	10 49	1 27	22 37	0 13	1 11	2 10	0 31	0 45	19 15	0 1	14 46	7 56	21 10	21 23	16 53	10 36	0 23	
T 11	10 24	1s23	4 56	5 14	1 36	16 0	0 7	10 36	1 27	22 38	0 13	1 8	2 10	0 30	0 45	19 15	0 1	14 46	7 55	21 9	21 22	16 51	10 39	0 23	
F 12	10 45	6 4	4 29	5 57	1 31	16 25	0 4	10 23	1 28	22 39	0 13	1 5	2 10	0 29	0 45	19 15	0 1	14 47	7 55	21 8	21 22	16 49	10 41	0 23	
S 13	11 7	10 35	3 46	6 40	1 26	16 49	0 2	10 10	1 28	22 40	0 13	1 3	2 10	0 29	0 45	19 15	0 1	14 47	7 55	21 7	21 21	16 47	10 44	0 23	
S 14	11 28	14 40	2 50	7 23	1 20	17 12	0s 1	9 57	1 28	22 42	0 12	1 0	2 10	0 28	0 45	19 15	0 1	14 48	7 55	21 6	21 20	16 46	10 47	0 24	
M15	11 49	18 4	1 43	8 6	1 14	17 35	0 3	9 44	1 29	22 43	0 12	0 57	2 10	0 27	0 45	19 15	0 1	14 48	7 54	21 5	21 20	16 44	10 50	0 24	
T 16	12 10	20 28	0 30	8 48	1 8	17 58	0 6	9 31	1 29	22 44	0 12	0 55	2 10	0 26	0 45	19 14	0 1	14 49	7 54	21 5	21 19	16 42	10 52	0 24	
W17	12 31	21 39	0n47	9 29	1 2	18 20	0 8	9 18	1 30	22 45	0 12	0 52	2 10	0 25	0 45	19 14	0 0	14 49	7 54	21 5	21 19	16 40	10 55	0 25	
T 18	12 51	21 27	2 1	10 11	0 56	18 42	0 11	9 5	1 30	22 46	0 12	0 50	2 11	0 25	0 45	19 14	0 0	14 49	7 53	21 5	21 18	16 38	10 58	0 25	
F 19	13 12	19 53	3 9	10 52	0 49	19 3	0 14	8 52	1 30	22 47	0 12	0 47	2 11	0 24	0 44	19 14	0 0	14 50	7 53	21 6	21 18	16 36	11 1	0 25	
S 20	13 32	17 5	4 4	11 32	0 43	19 24	0 16	8 38	1 31	22 49	0 12	0 45	2 11	0 23	0 44	19 14	0 0	14 50	7 53	21 6	21 17	16 35	11 3	0 26	
S 21	13 52	13 17	4 45	12 12	0 36	19 44	0 19	8 25	1 31	22 50	0 12	0 42	2 11	0 22	0 44	19 14	0 0	14 51	7 53	21 6	21 17	16 33	11 6	0 26	
M22	14 11	8 46	5 9	12 51	0 30	20 4	0 21	8 12	1 32	22 51	0 12	0 40	2 11	0 22	0 44	19 14	0 0	14 51	7 52	21 6	21 16	16 31	11 9	0 26	
T 23	14 31	3 48	5 13	13 30	0 23	20 23	0 24	7 59	1 32	22 52	0 11	0 37	2 11	0 21	0 44	19 14	0 0	14 52	7 52	21 5	21 15	16 29	11 12	0 26	
W24	14 50	1n20	5 0	14 7	0 16	20 42	0 26	7 46	1 32	22 53	0 11	0 35	2 11	0 20	0 44	19 14	0 0	14 52	7 52	21 5	21 15	16 27	11 14	0 27	
T 25	15 9	6 20	4 29	14 45	0 10	21 0	0 29	7 32	1 33	22 54	0 11	0 32	2 12	0 20	0 44	19 14	0 0	14 53	7 52	21 4	21 14	16 25	11 17	0 27	
F 26	15 28	10 57	3 43	15 21	0 3	21 17	0 32	7 19	1 33	22 55	0 11	0 30	2 12	0 19	0 44	19 13	0 0	14 53	7 51	21 3	21 14	16 23	11 20	0 27	
S 27	15 46	14 58	2 46	15 57	0s 4	21 34	0 34	7 6	1 34	22 56	0 11	0 28	2 12	0 18	0 44	19 13	0 0	14 53	7 51	21 3	21 13	16 22	11 22	0 28	
S 28	16 4	18 10	1 41	16 32	0 11	21 50	0 37	6 53	1 34	22 57	0 11	0 25	2 12	0 18	0 44	19 13	0 0	14 54	7 51	21 2	21 13	16 20	11 25	0 28	
M29	16 22	20 23	0 32	17 6	0 17	22 6	0 39	6 39	1 34	22 58	0 11	0 23	2 12	0 17	0 44	19 13	0 0	14 54	7 51	21 2	21 12	16 18	11 27	0 28	
T 30	16 40	21 32	0s38	17 39	0 24	22 21	0 42	6 26	1 35	22 59	0 11	0 21	2 12	0 17	0 44	19 13	0 0	14 55	7 51	21 2	21 11	16 16	11 30	0 28	
W31	16s57	21n36	1s44	18s11	0s30	22s35	0s44	6n13	1n35	23s 0	0n10	0n18	2n13	0n16	0s44	19s13	0n 0	14s55	7n50	21s 2	21s11	16n14	11s33	0n29	

ASTRODIENST EPHEMERIS for the year 1509

geocentric

NOVEMBER 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 17 34	17 ¹⁸ 59'38	5 ⁵⁶ 25	21 ¹⁸ 16	10 ¹⁸ 15	18 ¹⁸ 35	20 ¹⁸ 58	4 ⁴ 25	2°R20	4 ⁴ 24	15 ¹⁸ 34	4 ⁴ 13	4 ⁴ 54	29 ⁵⁶ 29	1 ¹⁸ 33	T 1
F 2	3 21 31	19° 0'11	17°22	22°50	11°30	19°10	21°10	4°31	2°Y19	4°24	15°36	4°15	4°51	29°36	1°41	F 2
S 3	3 25 27	20° 0'46	29°14	24°24	12°44	19°45	21°23	4°37	2°17	4°25	15°38	4°16	4°48	29°43	1°49	S 3
S 4	3 29 24	21° 1'22	11 ¹⁸ 4	25°58	13°59	20°19	21°36	4°43	2°16	4°26	15°40	4°17	4°45	29°49	1°58	S 4
M 5	3 33 20	22° 2'00	22°59	27°32	15°14	20°54	21°49	4°49	2°14	4°27	15°42	4°R17	4°42	29°56	2° 6	M 5
T 6	3 37 17	23° 2'40	5 ¹⁸ 2	29° 5	16°28	21°28	22° 1	4°55	2°13	4°28	15°45	4°17	4°39	0 ¹⁸ 3	2°14	T 6
W 7	3 41 13	24° 3'22	17°19	0 ¹⁸ 39	17°43	22° 2	22°14	5° 0	2°12	4°29	15°47	4°16	4°35	0° 9	2°22	W 7
T 8	3 45 10	25° 4'05	29°52	2°12	18°57	22°37	22°27	5° 6	2°11	4°30	15°49	4°15	4°32	0°16	2°30	T 8
F 9	3 49 6	26° 4'50	12 ¹⁸ 47	3°45	20°12	23°11	22°40	5°12	2°10	4°31	15°51	4°14	4°29	0°23	2°38	F 9
S 10	3 53 3	27° 5'37	26° 3	5°18	21°27	23°45	22°53	5°17	2° 8	4°32	15°53	4°13	4°26	0°30	2°46	S 10
S 11	3 56 59	28° 6'25	9 ¹⁸ 42	6°51	22°41	24°19	23° 6	5°23	2° 7	4°33	15°55	4°12	4°23	0°36	2°54	S 11
M12	4 0 56	29° 7'14	23°42	8°24	23°56	24°53	23°20	5°28	2° 6	4°35	15°57	4°12	4°20	0°43	3° 2	M12
T 13	4 4 53	0 ¹⁸ 8'05	8 ¹⁸ 0	9°56	25°10	25°27	23°33	5°33	2° 5	4°36	16° 0	4°D12	4°16	0°50	3°10	T 13
W14	4 8 49	1° 8'57	22°29	11°29	26°25	26° 1	23°46	5°38	2° 5	4°37	16° 2	4°12	4°13	0°56	3°18	W14
T 15	4 12 46	2° 9'50	7 ¹⁸ 6	13° 1	27°40	26°34	23°59	5°44	2° 4	4°38	16° 4	4°12	4°10	1° 3	3°26	T 15
F 16	4 16 42	3°10'44	21°42	14°33	28°54	27° 8	24°13	5°49	2° 3	4°40	16° 6	4°12	4° 7	1°10	3°34	F 16
S 17	4 20 39	4°11'39	6 ¹⁸ 14	16° 5	0 ¹⁸ 9	27°42	24°26	5°54	2° 2	4°41	16° 8	4°R12	4° 4	1°16	3°42	S 17
S 18	4 24 35	5°12'35	20°35	17°37	1°23	28°15	24°39	5°59	2° 1	4°42	16°11	4°12	4° 0	1°23	3°49	S 18
M19	4 28 32	6°13'31	4 ¹⁸ 44	19° 9	2°38	28°48	24°53	6° 4	2° 1	4°44	16°13	4°D12	3°57	1°30	3°57	M19
T 20	4 32 29	7°14'28	18°38	20°40	3°52	29°22	25° 6	6° 8	2° 0	4°45	16°15	4°12	3°54	1°37	4° 5	T 20
W21	4 36 25	8°15'26	2°Y17	22°12	5° 7	29°55	25°20	6°13	1°59	4°47	16°17	4°12	3°51	1°43	4°12	W21
T 22	4 40 22	9°16'24	15°41	23°43	6°21	0 ¹⁸ 28	25°33	6°18	1°59	4°48	16°20	4°13	3°48	1°50	4°20	T 22
F 23	4 44 18	10°17'23	28°50	25°13	7°36	1° 1	25°47	6°22	1°58	4°49	16°22	4°13	3°45	1°57	4°27	F 23
S 24	4 48 15	11°18'23	11 ¹⁸ 46	26°43	8°50	1°34	26° 0	6°27	1°58	4°51	16°24	4°14	3°41	2° 3	4°35	S 24
S 25	4 52 11	12°19'24	24°29	28°13	10° 4	2° 7	26°14	6°31	1°58	4°53	16°26	4°15	3°38	2°10	4°42	S 25
M26	4 56 8	13°20'25	7 ¹⁸ 0	29°42	11°19	2°40	26°28	6°35	1°57	4°54	16°29	4°R15	3°35	2°17	4°50	M26
T 27	5 0 4	14°21'27	19°20	1 ¹⁸ 10	12°33	3°12	26°41	6°40	1°57	4°56	16°31	4°14	3°32	2°24	4°57	T 27
W28	5 4 1	15°22'30	1 ¹⁸ 30	2°38	13°48	3°45	26°55	6°44	1°57	4°57	16°33	4°13	3°29	2°30	5° 4	W28
T 29	5 7 58	16°23'34	13°31	4° 4	15° 2	4°17	27° 9	6°48	1°57	4°59	16°35	4°12	3°26	2°37	5°11	T 29
F 30	5 11 54	17 ¹⁸ 24'38	25 ⁵⁶ 27	5 ¹⁸ 29	16 ¹⁸ 16	4 ¹⁸ 50	27 ¹⁸ 23	6 ¹⁸ 52	1°Y56	5 ¹⁸ 1	16 ¹⁸ 38	4 ¹⁸ 10	3 ¹⁸ 22	2 ¹⁸ 44	5 ¹⁸ 18	F 30

Day	☉	☾	♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	17s14	20n39	2s44	18s43	0s37	22s49	0s47	6n 0	1n36	23s 1	0n10	0n16	2n13	0n15	0s44	19s12	0n 0	14s56	7n50	21s 3	21s10	16n12	11s35	0n29
F 2	17 31	18 47	3 37	19 13	0 43	23 2	0 49	5 46	1 36	23 2	0 10	0 14	2 13	0 15	0 44	19 12	0 0	14 56	7 50	21 3	21 10	16 10	11 38	0 29
S 3	17 47	16 8	4 20	19 43	0 49	23 14	0 51	5 33	1 36	23 3	0 10	0 12	2 13	0 14	0 44	19 12	0 0	14 56	7 50	21 3	21 9	16 9	11 40	0 30
S 4	18 4	12 49	4 51	20 12	0 55	23 26	0 54	5 20	1 37	23 4	0 10	0 10	2 13	0 14	0 44	19 12	0 0	14 57	7 50	21 3	21 8	16 7	11 43	0 30
M 5	18 19	9 0	5 11	20 39	1 1	23 37	0 56	5 6	1 37	23 5	0 10	0 7	2 13	0 13	0 44	19 12	0 0	14 57	7 49	21 3	21 8	16 5	11 46	0 30
T 6	18 35	4 46	5 17	21 6	1 7	23 47	0 59	4 53	1 38	23 6	0 10	0 5	2 14	0 13	0 44	19 11	0 0	14 58	7 49	21 3	21 7	16 3	11 48	0 31
W 7	18 50	0 17	5 9	21 32	1 13	23 56	1 1	4 40	1 38	23 7	0 10	0 3	2 14	0 12	0 44	19 11	0 0	14 58	7 49	21 3	21 7	16 1	11 51	0 31
T 8	19 5	4s19	4 46	21 56	1 19	24 5	1 3	4 27	1 38	23 8	0 10	0 1	2 14	0 12	0 44	19 11	0 0	14 58	7 49	21 3	21 6	15 59	11 53	0 31
F 9	19 19	8 52	4 8	22 20	1 24	24 13	1 5	4 14	1 39	23 8	0 9	0s 1	2 14	0 11	0 44	19 11	0 0	14 59	7 49	21 3	21 6	15 57	11 56	0 32
S 10	19 34	13 8	3 16	22 42	1 29	24 21	1 7	4 0	1 39	23 9	0 9	0 3	2 14	0 11	0 44	19 10	0 0	14 59	7 48	21 3	21 5	15 55	11 58	0 32
S 11	19 47	16 50	2 12	23 4	1 34	24 27	1 10	3 47	1 40	23 10	0 9	0 5	2 15	0 11	0 44	19 10	0 0	15 0	7 48	21 2	21 4	15 54	12 0	0 32
M12	20 1	19 41	0 58	23 24	1 39	24 33	1 12	3 34	1 40	23 11	0 9	0 7	2 15	0 10	0 44	19 10	0 0	15 0	7 48	21 2	21 4	15 52	12 3	0 32
T 13	20 14	21 21	0n21	23 43	1 44	24 39	1 14	3 21	1 40	23 12	0 9	0 9	2 15	0 10	0 44	19 10	0 0	15 0	7 48	21 2	21 3	15 50	12 5	0 33
W14	20 27	21 38	1 40	24 0	1 48	24 43	1 16	3 8	1 41	23 12	0 9	0 11	2 15	0 10	0 44	19 9	0 0	15 1	7 48	21 2	21 3	15 48	12 8	0 33
T 15	20 39	20 26	2 53	24 17	1 53	24 47	1 18	2 55	1 41	23 13	0 9	0 12	2 16	0 9	0 44	19 9	0 0	15 1	7 48	21 2	21 2	15 46	12 10	0 33
F 16	20 51	17 53	3 54	24 32	1 57	24 50	1 20	2 42	1 42	23 14	0 9	0 14	2 16	0 9	0 44	19 9	0 0	15 1	7 47	21 2	21 1	15 44	12 12	0 34
S 17	21 2	14 14	4 41	24 46	2 0	24 52	1 22	2 29	1 42	23 14	0 9	0 16	2 16	0 9	0 44	19 8	0 0	15 2	7 47	21 2	21 1	15 42	12 15	0 34
S 18	21 13	9 47	5 9	24 59	2 4	24 53	1 23	2 16	1 42	23 15	0 9	0 18	2 16	0 8	0 44	19 8	0 0	15 2	7 47	21 2	21 0	15 40	12 17	0 34
M19	21 24	4 52	5 18	25 10	2 7	24 54	1 25	2 3	1 43	23 16	0 8	0 20	2 16	0 8	0 43	19 8	0 0	15 3	7 47	21 2	21 0	15 38	12 19	0 35
T 20	21 35	0n12	5 8	25 20	2 10	24 54	1 27	1 50	1 43	23 16	0 8	0 21	2 17	0 8	0 43	19 7	0 0	15 3	7 47	21 2	20 59	15 36	12 22	0 35
W21	21 44	5 12	4 40	25 28	2 12	24 53	1 29	1 37	1 44	23 17	0 8	0 23	2 17	0 8	0 43	19 7	0 0	15 3	7 47	21 3	20 58	15 34	12 24	0 35
T 22	21 54	9 51	3 58	25 35	2 14	24 51	1 30	1 24	1 44	23 18	0 8	0 24	2 17	0 8	0 43	19 7	0 0	15 4	7 47	21 3	20 58	15 33	12 26	0 36
F 23	22 3	13 57	3 4	25 40	2 16	24 49	1 32	1 11	1 44	23 18	0 8	0 26	2 17	0 7	0 43	19 6	0 0	15 4	7 46	21 3	20 57	15 31	12 28	0 36
S 24	22 12	17 20	2 2	25 44	2 17	24 46	1 33	0 59	1 45	23 19	0 8	0 28	2 18	0 7	0 43	19 6	0 0	15 4	7 46	21 3	20 57	15 29	12 31	0 36
S 25	22 20	19 49	0 54	25 47	2 18	24 42	1 35	0 46	1 45	23 19	0 8	0 29	2 18	0 7	0 43	19 6	0 0	15 5	7 46	21 3	20 56	15 27	12 33	0 37
M26	22 28	21 17	0s15	25 48	2 18	24 37	1 36	0 33	1 46	23 20	0 8	0 31	2 18	0 7	0 43	19 5	0 0	15 5	7 46	21 3	20 55	15 25	12 35	0 37
T 27	22 35	21 42	1 23	25 48	2 18	24 32	1 38	0 21	1 46	23 20	0 8	0 32	2 18	0 7	0 43	19 5	0 0	15 5	7 46	21 3	20 55	15 23	12 37	0 37
W28	22 42	21 4	2 25	25 45	2 17	24 25	1 39	0 8	1 46	23 20	0 7	0 33	2 19	0 7	0 43	19 5	0 0	15 6	7 46	21 3	20 54	15 21	12 39	0 38
T 29	22 48	19 29	3 21	25 42	2 16	24 18	1 40	0s 4	1 47	23 21	0 7	0 35	2 19	0 7	0 43	19 4	0 0	15 6	7 46	21 2	20 54	15 19	12 41	0 38
F 30	22s54	17n 4	4s 7	25s37	2s14	24s11	1s41	0s17	1n47	23s21	0n 7	0s36	2n19	0n 7	0s43	19s 4	0s 0	15s 6	7n46	21s 2	20s53	15n17	12s43	0n38

ASTRODIENST EPHEMERIS for the year 1509

geocentric

DECEMBER 1509 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 15 51	18°25'44	7♂18	6♂53	17♂31	5♂22	27♂36	6♂56	1°R56	5≈ 2	16♂40	4°R 8	3♂19	2♂50	5♂25	S 1
S 2	5 19 47	19°26'50	19° 9	8°14	18°45	5°54	27°50	6°59	1°D56	5° 4	16°42	4♂ 5	3°16	2°57	5°32	S 2
M 3	5 23 44	20°27'56	1♂ 2	9°34	19°59	6°26	28° 4	7° 3	1°Y56	5° 6	16°44	4° 4	3°13	3° 4	5°39	M 3
T 4	5 27 40	21°29'04	13° 3	10°51	21°13	6°58	28°18	7° 7	1°57	5° 7	16°47	4° 3	3°10	3°10	5°46	T 4
W 5	5 31 37	22°30'12	25°16	12° 6	22°27	7°30	28°31	7°10	1°57	5° 9	16°49	4°D 2	3° 6	3°17	5°53	W 5
T 6	5 35 33	23°31'21	7♂44	13°17	23°42	8° 2	28°45	7°14	1°57	5°11	16°51	4° 3	3° 3	3°24	6° 0	T 6
F 7	5 39 30	24°32'31	20°33	14°24	24°56	8°33	28°59	7°17	1°57	5°13	16°53	4° 4	3° 0	3°31	6° 7	F 7
S 8	5 43 27	25°33'41	3♂47	15°27	26°10	9° 5	29°13	7°20	1°57	5°15	16°56	4° 6	2°57	3°37	6°13	S 8
S 9	5 47 23	26°34'52	17°27	16°24	27°24	9°36	29°27	7°23	1°58	5°17	16°58	4° 7	2°54	3°44	6°20	S 9
M10	5 51 20	27°36'04	1♂33	17°16	28°38	10° 7	29°41	7°26	1°58	5°18	17° 0	4°R 8	2°51	3°51	6°26	M10
T 11	5 55 16	28°37'16	16° 4	18° 1	29°52	10°38	29°54	7°29	1°59	5°20	17° 2	4° 8	2°47	3°57	6°33	T 11
W12	5 59 13	29°38'28	0♂54	18°38	1≈ 6	11° 9	0♂ 8	7°32	1°59	5°22	17° 5	4° 6	2°44	4° 4	6°39	W12
T 13	6 3 9	0♂39'41	15°56	19° 6	2°20	11°40	0°22	7°35	2° 0	5°24	17° 7	4° 3	2°41	4°11	6°45	T 13
F 14	6 7 6	1°40'53	1≈ 1	19°25	3°34	12°11	0°36	7°38	2° 0	5°26	17° 9	3°59	2°38	4°17	6°51	F 14
S 15	6 11 2	2°42'06	15°58	19°R33	4°48	12°41	0°50	7°40	2° 1	5°28	17°11	3°55	2°35	4°24	6°57	S 15
S 16	6 14 59	3°43'18	0♂41	19°31	6° 2	13°12	1° 4	7°43	2° 2	5°30	17°13	3°51	2°32	4°31	7° 4	S 16
M17	6 18 56	4°44'30	15° 3	19°17	7°16	13°42	1°18	7°45	2° 2	5°32	17°15	3°48	2°28	4°38	7° 9	M17
T 18	6 22 52	5°45'42	29° 2	18°51	8°30	14°12	1°32	7°47	2° 3	5°34	17°18	3°47	2°25	4°44	7°15	T 18
W19	6 26 49	6°46'53	12°Y38	18°13	9°44	14°42	1°45	7°49	2° 4	5°36	17°20	3°D46	2°22	4°51	7°21	W19
T 20	6 30 45	7°48'04	25°51	17°24	10°57	15°12	1°59	7°52	2° 5	5°38	17°22	3°48	2°19	4°58	7°27	T 20
F 21	6 34 42	8°49'14	8♂45	16°25	12°11	15°42	2°13	7°53	2° 6	5°40	17°24	3°49	2°16	5° 4	7°32	F 21
S 22	6 38 38	9°50'24	21°23	15°17	13°25	16°11	2°27	7°55	2° 7	5°42	17°26	3°51	2°12	5°11	7°38	S 22
S 23	6 42 35	10°51'34	3♂48	14° 3	14°38	16°40	2°41	7°57	2° 8	5°45	17°28	3°R51	2° 9	5°18	7°43	S 23
M24	6 46 31	11°52'44	16° 2	12°44	15°52	17°10	2°55	7°59	2° 9	5°47	17°30	3°51	2° 6	5°25	7°49	M24
T 25	6 50 28	12°53'53	28° 8	11°24	17° 5	17°39	3° 8	8° 0	2°10	5°49	17°33	3°48	2° 3	5°31	7°54	T 25
W26	6 54 25	13°55'01	10♂9	10° 5	18°19	18° 7	3°22	8° 2	2°11	5°51	17°35	3°43	2° 0	5°38	7°59	W26
T 27	6 58 21	14°56'09	22° 4	8°49	19°32	18°36	3°36	8° 3	2°13	5°53	17°37	3°36	1°57	5°45	8° 4	T 27
F 28	7 2 18	15°57'17	3♂57	7°39	20°46	19° 5	3°50	8° 4	2°14	5°55	17°39	3°28	1°53	5°51	8°10	F 28
S 29	7 6 14	16°58'25	15°49	6°35	21°59	19°33	4° 3	8° 5	2°15	5°57	17°41	3°19	1°50	5°58	8°14	S 29
S 30	7 10 11	17°59'32	27°41	5°40	23°12	20° 1	4°17	8° 6	2°17	6° 0	17°43	3°11	1°47	6° 5	8°19	S 30
M31	7 14 7	19♂ 0'38	9♂36	4♂54	24≈25	20♂29	4♂31	8♂ 7	2°Y18	6≈ 2	17♂45	3♂ 3	1♂44	6♂12	8♂24	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23s 0	13n57	4s42	25s30	2s11	24s 2	1s42	0s29	1n48	23s22	0n 7	0s38	2n19	0n 7	0s43	19s 3
S 2	23 5	10 17	5 5	25 22	2 8	23 53	1 43	0 42	1 48	23 22	0 7	0 39	2 20	0 7	0 43	19 3
M 3	23 9	6 13	5 15	25 13	2 4	23 44	1 44	0 54	1 48	23 22	0 7	0 40	2 20	0 7	0 43	19 3
T 4	23 14	1 52	5 12	25 2	1 59	23 33	1 45	1 6	1 49	23 23	0 7	0 41	2 20	0 7	0 43	19 2
W 5	23 17	2s37	4 55	24 49	1 53	23 22	1 46	1 19	1 49	23 23	0 7	0 42	2 20	0 7	0 43	19 2
T 6	23 21	7 6	4 23	24 36	1 46	23 10	1 46	1 31	1 50	23 23	0 7	0 43	2 21	0 7	0 43	19 1
F 7	23 23	11 24	3 38	24 21	1 38	22 57	1 47	1 43	1 50	23 23	0 7	0 45	2 21	0 7	0 43	19 1
S 8	23 26	15 19	2 40	24 5	1 30	22 44	1 48	1 55	1 50	23 23	0 7	0 46	2 21	0 8	0 43	19 0
S 9	23 27	18 32	1 31	23 49	1 20	22 30	1 48	2 7	1 51	23 24	0 6	0 47	2 21	0 8	0 43	19 0
M10	23 29	20 45	0 14	23 31	1 9	22 15	1 48	2 19	1 51	23 24	0 6	0 48	2 22	0 8	0 43	19 0
T 11	23 30	21 41	1n 5	23 13	0 57	22 0	1 49	2 31	1 52	23 24	0 6	0 48	2 22	0 8	0 43	18 59
W12	23 30	21 8	2 22	22 55	0 43	21 44	1 49	2 42	1 52	23 24	0 6	0 49	2 22	0 8	0 43	18 59
T 13	23 30	19 5	3 30	22 37	0 29	21 28	1 49	2 54	1 52	23 24	0 6	0 50	2 22	0 9	0 43	18 58
F 14	23 29	15 42	4 23	22 18	0 13	21 11	1 49	3 6	1 53	23 24	0 6	0 51	2 23	0 9	0 42	18 58
S 15	23 28	11 21	4 58	22 0	0n 4	20 53	1 49	3 17	1 53	23 24	0 6	0 52	2 23	0 9	0 42	18 57
S 16	23 27	6 23	5 13	21 43	0 22	20 35	1 49	3 29	1 54	23 24	0 6	0 52	2 23	0 10	0 42	18 57
M17	23 25	1 11	5 7	21 27	0 40	20 16	1 49	3 40	1 54	23 24	0 6	0 53	2 24	0 10	0 42	18 56
T 18	23 23	3n57	4 43	21 11	1 0	19 56	1 49	3 51	1 54	23 24	0 6	0 54	2 24	0 10	0 42	18 56
W19	23 20	8 45	4 4	20 57	1 19	19 36	1 48	4 3	1 55	23 24	0 5	0 54	2 24	0 11	0 42	18 55
T 20	23 16	13 0	3 13	20 44	1 38	19 15	1 48	4 14	1 55	23 24	0 5	0 55	2 24	0 11	0 42	18 55
F 21	23 12	16 33	2 13	20 33	1 57	18 54	1 48	4 25	1 56	23 24	0 5	0 55	2 25	0 11	0 42	18 54
S 22	23 8	19 14	1 8	20 23	2 15	18 33	1 47	4 36	1 56	23 24	0 5	0 56	2 25	0 12	0 42	18 54
S 23	23 3	20 58	0 0	20 15	2 32	18 11	1 46	4 47	1 56	23 23	0 5	0 56	2 25	0 12	0 42	18 53
M24	22 58	21 41	1s 6	20 8	2 46	17 48	1 46	4 58	1 57	23 23	0 5	0 57	2 26	0 13	0 42	18 53
T 25	22 52	21 21	2 8	20 3	2 59	17 25	1 45	5 8	1 57	23 23	0 5	0 57	2 26	0 13	0 42	18 52
W26	22 46	20 3	3 4	19 59	3 9	17 1	1 44	5 19	1 57	23 23	0 5	0 57	2 26	0 14	0 42	18 52
T 27	22 40	17 53	3 52	19 57	3 16	16 37	1 43	5 30	1 58	23 22	0 5	0 58	2 26	0 14	0 42	18 51
F 28	22 33	14 58	4 29	19 56	3 21	16 13	1 42	5 40	1 58	23 22	0 5	0 58	2 27	0 15	0 42	18 51
S 29	22 25	11 28	4 54	19 56	3 24	15 48	1 40	5 50	1 59	23 22	0 5	0 58	2 27	0 16	0 42	18 50
S 30	22 17	7 31	5 6	19 59	3 24	15 23	1 39	6 1	1 59	23 22	0 4	0 58	2 27	0 16	0 42	18 50
M31	22s 9	3n16	5s 6	20s 2	3n23	14s57	1s38	6s11	1n59	23s21	0n 4	0s58	2n28	0n17	0s42	18s49

Julian Day Number = 2272554.5, Delta T = 269.85 sec

Ecliptic obliquity = 23°30'06, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°54'08, Lahiri = 17°01'08 Julian Calendar 1 Dec. 1509 == Greg. Calendar 11 Dec. 1509