



Astrodienst Ephemeris Tables for the year 1449

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 1449

geocentric

JANUARY 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	7 17 11	19°50'18	10°V37	6°51	3°28	15°K23	20°M48	10°R43	9°R46	25°R49	1°R56	10°K 3	11°K30	14°M15	25°R37	W 1
T 2	7 21 7	20°51'24	24°34	8°17	4°43	16° 8	20°58	10°M41	9°R44	25°M48	1°R55	10°R 4	11°27	14°21	25°R35	T 2
F 3	7 25 4	21°52'29	8°B18	9°41	5°58	16°53	21° 7	10°39	9°41	25°48	1°53	10° 2	11°24	14°28	25°33	F 3
S 4	7 29 0	22°53'33	21°49	11° 0	7°13	17°37	21°16	10°36	9°39	25°47	1°52	9°59	11°20	14°35	25°32	S 4
S 5	7 32 57	23°54'36	5°II 7	12°16	8°29	18°22	21°25	10°34	9°36	25°47	1°51	9°53	11°17	14°41	25°31	S 5
M 6	7 36 53	24°55'38	18°13	13°26	9°44	19° 7	21°35	10°31	9°34	25°46	1°49	9°46	11°14	14°48	25°29	M 6
T 7	7 40 50	25°56'40	1°B 6	14°30	10°59	19°51	21°44	10°29	9°31	25°46	1°48	9°38	11°11	14°55	25°28	T 7
W 8	7 44 47	26°57'40	13°47	15°27	12°14	20°36	21°52	10°26	9°29	25°45	1°46	9°30	11° 8	15° 1	25°27	W 8
T 9	7 48 43	27°58'39	26°16	16°17	13°29	21°20	22° 1	10°23	9°26	25°44	1°45	9°22	11° 4	15° 8	25°26	T 9
F 10	7 52 40	28°59'37	8°Q32	16°58	14°44	22° 5	22°10	10°20	9°24	25°44	1°44	9°16	11° 1	15°14	25°25	F 10
S 11	7 56 36	0° 0'35	20°38	17°31	15°59	22°49	22°18	10°17	9°21	25°43	1°42	9°13	10°58	15°21	25°24	S 11
S 12	8 0 33	1° 1'31	2°M35	17°53	17°14	23°34	22°27	10°14	9°19	25°42	1°41	9°11	10°55	15°28	25°23	S 12
M13	8 4 29	2° 2'27	14°25	18° 4	18°29	24°18	22°35	10°11	9°17	25°41	1°39	9°D11	10°52	15°34	25°22	M13
T14	8 8 26	3° 3'22	26°12	18°R 5	19°44	25° 2	22°43	10° 8	9°14	25°40	1°38	9°12	10°49	15°41	25°22	T14
W15	8 12 22	4° 4'15	8°A 0	17°54	20°59	25°47	22°51	10° 4	9°12	25°40	1°37	9°14	10°45	15°48	25°21	W15
T16	8 16 19	5° 5'08	19°53	17°32	22°14	26°31	22°59	10° 1	9°10	25°39	1°35	9°15	10°42	15°54	25°20	T16
F17	8 20 15	6° 6'01	1°M56	17° 0	23°29	27°15	23° 6	9°57	9° 8	25°38	1°34	9°R16	10°39	16° 1	25°20	F17
S18	8 24 12	7° 6'52	14°16	16°17	24°44	28° 0	23°14	9°54	9° 5	25°37	1°33	9°16	10°36	16° 8	25°19	S18
S19	8 28 9	8° 7'42	26°55	15°25	25°59	28°44	23°22	9°50	9° 3	25°36	1°31	9°15	10°33	16°14	25°19	S19
M20	8 32 5	9° 8'32	9°M59	14°26	27°14	29°28	23°29	9°47	9° 1	25°35	1°30	9°12	10°30	16°21	25°19	M20
T21	8 36 2	10° 9'20	23°29	13°21	28°29	0°V12	23°36	9°43	8°59	25°34	1°28	9° 8	10°26	16°28	25°18	T21
W22	8 39 58	11°10'08	7°B27	12°12	29°43	0°56	23°43	9°39	8°57	25°33	1°27	9° 3	10°23	16°34	25°18	W22
T23	8 43 55	12°10'54	21°50	11° 1	0°K58	1°40	23°50	9°35	8°55	25°32	1°26	8°59	10°20	16°41	25°D18	T23
F24	8 47 51	13°11'39	6°K33	9°49	2°13	2°24	23°57	9°31	8°53	25°31	1°24	8°56	10°17	16°48	25°18	F24
S25	8 51 48	14°12'23	21°30	8°40	3°28	3° 8	24° 3	9°27	8°51	25°30	1°23	8°53	10°14	16°54	25°18	S25
S26	8 55 45	15°13'05	6°K31	7°34	4°43	3°52	24°10	9°23	8°49	25°28	1°22	8°D53	10°10	17° 1	25°19	S26
M27	8 59 41	16°13'46	21°28	6°33	5°57	4°36	24°16	9°19	8°47	25°27	1°20	8°53	10° 7	17° 7	25°19	M27
T28	9 3 38	17°14'25	6°V14	5°38	7°12	5°20	24°22	9°15	8°45	25°26	1°19	8°54	10° 4	17°14	25°19	T28
W29	9 7 34	18°15'02	20°43	4°50	8°27	6° 4	24°28	9°10	8°43	25°25	1°18	8°56	10° 1	17°21	25°19	W29
T30	9 11 31	19°15'37	4°B52	4° 9	9°41	6°48	24°34	9° 6	8°41	25°23	1°16	8°57	9°58	17°27	25°20	T30
F31	9 15 27	20°16'11	18°B39	3°36	10°K56	7°V32	24°M40	9°M 2	8°B39	25°M22	1°R15	8°R57	9°K55	17°M34	25°B20	F31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	22s 3	6n37	2n37	19s52	1s17	20s49	1s25	6s23	0s39	17s 4	0n59	9n24	1n59	23n33	0n24	2n56
T 2	21 53	12 54	3 37	19 20	1 8	20 32	1 26	6 5	0 38	17 6	0 59	9 25	1 59	23 33	0 24	2 56
F 3	21 44	18 27	4 22	18 48	0 58	20 14	1 26	5 46	0 37	17 8	0 59	9 26	1 59	23 33	0 24	2 57
S 4	21 34	22 59	4 53	18 16	0 47	19 56	1 27	5 28	0 36	17 11	0 59	9 27	2 0	23 33	0 24	2 57
S 5	21 23	26 15	5 7	17 44	0 35	19 37	1 28	5 9	0 35	17 13	0 59	9 29	2 0	23 34	0 24	2 57
M 6	21 13	28 3	5 5	17 11	0 22	19 17	1 29	4 51	0 35	17 15	1 0	9 30	2 0	23 34	0 24	2 58
T 7	21 1	28 18	4 47	16 40	0 8	18 58	1 29	4 33	0 34	17 18	1 0	9 31	2 0	23 34	0 24	2 58
W 8	20 50	27 2	4 15	16 9	0n 7	18 37	1 30	4 14	0 33	17 20	1 0	9 32	2 1	23 34	0 24	2 58
T 9	20 38	24 26	3 32	15 39	0 22	18 16	1 30	3 56	0 32	17 22	1 0	9 34	2 1	23 34	0 24	2 58
F 10	20 25	20 44	2 39	15 11	0 38	17 55	1 31	3 37	0 31	17 24	1 0	9 35	2 1	23 34	0 24	2 59
S 11	20 13	16 14	1 39	14 46	0 55	17 32	1 31	3 19	0 30	17 26	1 0	9 36	2 1	23 35	0 24	2 59
S 12	20 0	11 9	0 36	14 22	1 12	17 10	1 31	3 0	0 29	17 28	1 0	9 38	2 1	23 35	0 24	2 59
M13	19 46	5 43	0s29	14 2	1 30	16 47	1 31	2 42	0 28	17 30	1 0	9 39	2 2	23 35	0 24	3 0
T14	19 32	0 7	1 32	13 45	1 48	16 23	1 32	2 23	0 27	17 32	1 0	9 40	2 2	23 35	0 24	3 0
W15	19 18	5s29	2 31	13 32	2 5	16 0	1 32	2 5	0 26	17 34	1 0	9 42	2 2	23 35	0 24	3 0
T16	19 3	10 57	3 24	13 22	2 22	15 15	1 32	1 46	0 25	17 36	1 0	9 43	2 2	23 35	0 24	3 1
F17	18 48	16 5	4 10	13 17	2 38	15 10	1 32	1 28	0 24	17 38	1 1	9 45	2 3	23 36	0 24	3 1
S18	18 33	20 41	4 44	13 15	2 53	14 45	1 32	1 9	0 23	17 40	1 1	9 46	2 3	23 36	0 24	3 2
S19	18 17	24 29	5 6	13 17	3 7	14 20	1 31	0 51	0 22	17 41	1 1	9 48	2 3	23 36	0 24	3 2
M20	18 1	27 11	5 13	13 23	3 18	13 54	1 31	0 32	0 21	17 43	1 1	9 50	2 3	23 36	0 24	3 2
T21	17 45	28 24	4 4	13 33	3 28	13 27	1 31	0 14	0 21	17 45	1 1	9 51	2 3	23 36	0 24	3 3
W22	17 29	27 54	4 36	13 45	3 35	13 1	1 30	0n 4	0 20	17 46	1 1	9 53	2 4	23 36	0 24	3 3
T23	17 12	25 32	3 50	13 59	3 40	12 34	1 30	0 23	0 19	17 48	1 1	9 55	2 4	23 36	0 24	3 4
F24	16 55	21 25	2 49	14 16	3 43	12 6	1 29	0 41	0 18	17 50	1 1	9 56	2 4	23 37	0 24	3 4
S25	16 37	15 52	1 34	14 34	3 43	11 39	1 29	1 0	0 17	17 51	1 1	9 58	2 4	23 37	0 24	3 5
S26	16 19	9 21	0 13	14 53	3 41	11 11	1 28	1 18	0 16	17 53	1 2	10 0	2 4	23 37	0 24	3 5
M27	16 1	2 20	1n 9	15 12	3 37	10 42	1 27	1 36	0 15	17 54	1 2	10 1	2 4	23 37	0 24	3 6
T28	15 43	4n42	2 25	15 31	3 30	10 14	1 26	1 54	0 14	17 55	1 2	10 3	2 5	23 37	0 24	3 6
W29	15 24	11 22	3 31	15 50	3 23	9 45	1 25	2 13	0 14	17 57	1 2	10 5	2 5	23 37	0 24	3 7
T30	15 6	17 17	4 22	16 8	3 14	9 16	1 25	2 31	0 13	17 58	1 2	10 7	2 5	23 37	0 24	3 7
F31	14s46	22n10	4n57	16s26	3n 4	8s47	1s23	2n49	0s12	17s59	1n 2	10n 8	2n 5	23n37	0n24	3n 8

Julian Day Number = 2250305.5, Delta T = 06m31s

Ecliptic obliquity = 23°30'47", Nutation = 0°00'06", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°03'12", Lahiri = 16°10'12" Julian Calendar 1 Jan. 1449 == Greg. Calendar 10 Jan. 1449

ASTRODIENST EPHEMERIS for the year 1449

geocentric

FEBRUARY 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	9 19 24	21°16'43	2°11' 6	3°R11	12°K10	8°Y16	24°M45	8°R57	8°R38	25°R21	1°R14	8°R57	9°K51	17°M41	25°B21	S 1
S 2	9 23 20	22°17'13	15°14	2°53	13°25	9° 0	24°50	8°M53	8°B36	25°M20	1°B12	8°K56	9°48	17°47	25°22	S 2
M 3	9 27 17	23°17'41	28° 4	2°42	14°40	9°43	24°56	8°48	8°34	25°18	1°11	8°54	9°45	17°54	25°22	M 3
T 4	9 31 14	24°18'07	10°54	2°D39	15°54	10°27	25° 1	8°44	8°33	25°17	1°10	8°52	9°42	18° 1	25°23	T 4
W 5	9 35 10	25°18'32	23° 3	2°43	17° 8	11°11	25° 5	8°39	8°31	25°16	1° 9	8°50	9°39	18° 7	25°24	W 5
T 6	9 39 7	26°18'54	5°15	2°53	18°23	11°54	25°10	8°35	8°30	25°14	1° 7	8°48	9°36	18°14	25°25	T 6
F 7	9 43 3	27°19'15	17°18	3° 9	19°37	12°38	25°15	8°30	8°28	25°13	1° 6	8°46	9°32	18°21	25°26	F 7
S 8	9 47 0	28°19'34	29°14	3°31	20°51	13°21	25°19	8°25	8°27	25°11	1° 5	8°46	9°29	18°27	25°27	S 8
S 9	9 50 56	29°19'51	11°M 5	3°58	22° 6	14° 5	25°23	8°21	8°25	25°10	1° 4	8°D45	9°26	18°34	25°29	S 9
M10	9 54 53	0°K20'06	22°53	4°30	23°20	14°48	25°27	8°16	8°24	25° 8	1° 2	8°46	9°23	18°41	25°30	M10
T 11	9 58 49	1°20'20	4°41	5° 7	24°34	15°32	25°31	8°11	8°23	25° 7	1° 1	8°46	9°20	18°47	25°31	T 11
W12	10 2 46	2°20'32	16°31	5°47	25°48	16°15	25°35	8° 6	8°22	25° 6	1° 0	8°47	9°16	18°54	25°32	W12
T 13	10 6 43	3°20'42	28°27	6°32	27° 3	16°58	25°38	8° 2	8°20	25° 4	0°59	8°48	9°13	19° 0	25°34	T 13
F 14	10 10 39	4°20'51	10°M32	7°20	28°17	17°41	25°42	7°57	8°19	25° 2	0°58	8°48	9°10	19° 7	25°35	F 14
S 15	10 14 36	5°20'58	22°50	8°12	29°31	18°25	25°45	7°52	8°18	25° 1	0°57	8°49	9° 7	19°14	25°37	S 15
S 16	10 18 32	6°21'04	5°M26	9° 7	0°Y45	19° 8	25°48	7°47	8°17	24°59	0°56	8°R49	9° 4	19°20	25°39	S 16
M17	10 22 29	7°21'08	18°23	10° 4	1°59	19°51	25°51	7°43	8°16	24°58	0°55	8°49	9° 1	19°27	25°41	M17
T 18	10 26 25	8°21'11	1°B45	11° 5	3°13	20°34	25°53	7°38	8°15	24°56	0°54	8°D49	8°57	19°34	25°42	T 18
W19	10 30 22	9°21'12	15°34	12° 8	4°27	21°17	25°56	7°33	8°14	24°55	0°52	8°49	8°54	19°40	25°44	W19
T 20	10 34 18	10°21'11	29°50	13°13	5°40	22° 0	25°58	7°28	8°13	24°53	0°51	8°49	8°51	19°47	25°46	T 20
F 21	10 38 15	11°21'09	14°B30	14°21	6°54	22°43	26° 0	7°23	8°13	24°52	0°50	8°49	8°48	19°54	25°48	F 21
S 22	10 42 12	12°21'04	29°29	15°31	8° 8	23°26	26° 2	7°19	8°12	24°50	0°49	8°49	8°45	20° 0	25°50	S 22
S 23	10 46 8	13°20'58	14°K39	16°43	9°22	24° 9	26° 3	7°14	8°11	24°48	0°48	8°R49	8°42	20° 7	25°52	S 23
M24	10 50 5	14°20'50	29°52	17°57	10°36	24°52	26° 5	7° 9	8°11	24°47	0°47	8°49	8°38	20°14	25°55	M24
T 25	10 54 1	15°20'39	14°Y56	19°12	11°49	25°35	26° 6	7° 4	8°10	24°45	0°47	8°48	8°35	20°20	25°57	T 25
W26	10 57 58	16°20'27	29°45	20°30	13° 3	26°18	26° 7	7° 0	8° 9	24°43	0°46	8°47	8°32	20°27	25°59	W26
T 27	11 1 54	17°20'12	14°B11	21°49	14°16	27° 1	26° 8	6°55	8° 9	24°42	0°45	8°47	8°29	20°34	26° 2	T 27
F 28	11 5 51	18°K19'55	28°B11	23° 9	15°Y30	27°Y43	26°M 9	6°M50	8°B 9	24°M40	0°M44	8°K46	8°K26	20°M40	26°B 4	F 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	decl lat	decl lat
S 1	14s27	25n46	5n14	16s42	2n53	8s17	1s22	3n 7	0s11	18s 1	1n 2	10n10	2n 5	23n38	0n24	3n 8
S 2	14 8	27 54	5 14	16 58	2 41	7 47	1 21	3 25	0 10	18 2	1 2	10 12	2 5	23 38	0 24	3 9
M 3	13 48	28 29	4 59	17 12	2 29	7 17	1 20	3 43	0 9	18 3	1 2	10 14	2 5	23 38	0 24	3 10
T 4	13 28	27 33	4 29	17 25	2 16	6 47	1 19	4 1	0 8	18 4	1 3	10 16	2 6	23 38	0 24	3 10
W 5	13 7	25 16	3 47	17 37	2 3	6 17	1 17	4 19	0 8	18 5	1 3	10 18	2 6	23 38	0 24	3 11
T 6	12 47	21 51	2 55	17 47	1 51	5 46	1 16	4 37	0 7	18 6	1 3	10 19	2 6	23 38	0 24	3 11
F 7	12 26	17 33	1 56	17 56	1 38	5 16	1 14	4 55	0 6	18 7	1 3	10 21	2 6	23 38	0 24	3 12
S 8	12 6	12 36	0 53	18 3	1 25	4 45	1 13	5 12	0 5	18 8	1 3	10 23	2 6	23 38	0 24	3 12
S 9	11 45	7 14	0s13	18 9	1 12	4 14	1 11	5 30	0 4	18 9	1 3	10 25	2 6	23 38	0 24	3 13
M10	11 23	1 39	1 18	18 13	1 0	3 43	1 10	5 48	0 4	18 10	1 3	10 27	2 6	23 38	0 24	3 14
T 11	11 2	4s 0	2 19	18 16	0 48	3 12	1 8	6 5	0 3	18 10	1 3	10 29	2 6	23 38	0 24	3 14
W12	10 40	9 30	3 15	18 18	0 36	2 41	1 6	6 23	0 2	18 11	1 4	10 31	2 7	23 38	0 24	3 15
T 13	10 19	14 44	4 3	18 18	0 24	2 10	1 4	6 40	0 1	18 12	1 4	10 32	2 7	23 39	0 24	3 16
F 14	9 57	19 27	4 40	18 17	0 13	1 38	1 2	6 57	0 0	18 13	1 4	10 34	2 7	23 39	0 24	3 16
S 15	9 35	23 28	5 6	18 14	0 2	1 7	1 0	7 15	0n 0	18 13	1 4	10 36	2 7	23 39	0 24	3 17
S 16	9 13	26 29	5 17	18 10	0s 8	0 36	0 58	7 32	0 1	18 14	1 4	10 38	2 7	23 39	0 24	3 17
M17	8 50	28 12	5 14	18 4	0 18	0 4	0 56	7 49	0 2	18 14	1 4	10 40	2 7	23 39	0 24	3 18
T 18	8 28	28 23	4 53	17 57	0 28	0n27	0 54	8 6	0 3	18 15	1 4	10 42	2 7	23 39	0 24	3 19
W19	8 5	26 49	4 15	17 49	0 38	0 59	0 52	8 23	0 3	18 15	1 4	10 44	2 7	23 39	0 24	3 19
T 20	7 43	23 31	3 20	17 39	0 47	1 30	0 50	8 40	0 4	18 16	1 5	10 46	2 7	23 39	0 24	3 20
F 21	7 20	18 37	2 11	17 27	0 55	2 1	0 47	8 56	0 5	18 16	1 5	10 47	2 7	23 39	0 23	3 21
S 22	6 57	12 30	0 52	17 15	1 3	2 33	0 45	9 13	0 6	18 16	1 5	10 49	2 7	23 39	0 23	3 21
S 23	6 34	5 34	0n32	17 0	1 11	3 4	0 43	9 30	0 6	18 17	1 5	10 51	2 7	23 39	0 23	3 22
M24	6 11	1n42	1 54	16 45	1 19	3 35	0 40	9 46	0 7	18 17	1 5	10 53	2 7	23 39	0 23	3 23
T 25	5 48	8 47	3 8	16 28	1 26	4 7	0 38	10 2	0 8	18 17	1 5	10 55	2 7	23 39	0 23	3 23
W26	5 24	15 16	4 7	16 10	1 32	4 38	0 35	10 19	0 9	18 17	1 5	10 56	2 7	23 39	0 23	3 24
T 27	5 1	20 44	4 49	15 50	1 38	5 9	0 33	10 35	0 9	18 17	1 5	10 58	2 7	23 39	0 23	3 25
F 28	4s38	24n53	5n12	15s29	1s44	5n40	0s30	10n51	0n10	18s17	1n 5	11n 0	2n 7	23n39	0n23	3n25

Julian Day Number = 2250336.5, Delta T = 06m31s

Ecliptic obliquity = 23°30'48, Nutation = 0°00'07, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°03'16, Lahiri = 16°10'16 Julian Calendar 1 Feb. 1449 == Greg. Calendar 10 Feb. 1449

ASTRODIENST EPHEMERIS for the year 1449

geocentric

MARCH 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 9 47	19°19'36	11°11'45	24°32'32	16°43'43	28°26'26	26°10'10	6°46'46	8°R 8	24°R39	0°R43	8°R45	8°22'22	20°47'47	26°8 7	S 1
S 2	11 13 44	20°19'14	24°53'53	25°56'56	17°57'57	29° 9'09	26°10'10	6°41'41	8°8 8	24°37'37	0°42'42	8°D45	8°19'19	20°53'53	26° 9'09	S 2
M 3	11 17 41	21°18'51	7°39'39	27°21'21	19°10'10	29°51'51	26°10'10	6°37'37	8° 8'08	24°35'35	0°41'41	8°46'46	8°16'16	21° 0'00	26°12'12	M 3
T 4	11 21 37	22°18'24	20° 6'06	28°48'48	20°23'23	0°34'34	26°R10	6°32'32	8° 7'07	24°34'34	0°41'41	8°47'47	8°13'13	21° 7'07	26°15'15	T 4
W 5	11 25 34	23°17'56	2°19'19	0°16'16	21°37'37	1°16'16	26°10'10	6°28'28	8° 7'07	24°32'32	0°40'40	8°48'48	8°10'10	21°13'13	26°17'17	W 5
T 6	11 29 30	24°17'25	14°20'20	1°46'46	22°50'50	1°59'59	26°10'10	6°23'23	8° 7'07	24°30'30	0°39'39	8°49'49	8° 7'07	21°20'20	26°20'20	T 6
F 7	11 33 27	25°16'52	26°14'14	3°17'17	24° 3'03	2°41'41	26° 9'09	6°19'19	8°D 7'07	24°29'29	0°38'38	8°50'50	8° 3'03	21°27'27	26°23'23	F 7
S 8	11 37 23	26°16'17	8°17'17	4°49'49	25°16'16	3°24'24	26° 8'08	6°14'14	8° 7'07	24°27'27	0°38'38	8°R51	8° 0'00	21°33'33	26°26'26	S 8
S 9	11 41 20	27°15'39	19°51'51	6°23'23	26°29'29	4° 6'06	26° 8'08	6°10'10	8° 7'07	24°25'25	0°37'37	8°50'50	7°57'57	21°40'40	26°29'29	S 9
M10	11 45 16	28°15'00	1°49'49	7°58'58	27°42'42	4°48'48	26° 6'06	6° 6'06	8° 7'07	24°24'24	0°36'36	8°49'49	7°54'54	21°47'47	26°32'32	M10
T 11	11 49 13	29°14'18	13°30'30	9°35'35	28°55'55	5°30'30	26° 5'05	6° 2'02	8° 7'07	24°22'22	0°36'36	8°47'47	7°51'51	21°53'53	26°35'35	T 11
W12	11 53 9	0°13'35	25°26'26	11°13'13	0°8 8'08	6°13'13	26° 4'04	5°58'58	8° 8'08	24°20'20	0°35'35	8°43'43	7°47'47	22° 0'00	26°38'38	W12
T 13	11 57 6	1°12'49	7°12'49	12°52'52	1°21'21	6°55'55	26° 2'02	5°53'53	8° 8'08	24°19'19	0°35'35	8°40'40	7°44'44	22° 7'07	26°42'42	T 13
F 14	12 1 3	2°12'02	19°41'41	14°33'33	2°33'33	7°37'37	26° 0'00	5°49'49	8° 8'08	24°17'17	0°34'34	8°36'36	7°41'41	22°13'13	26°45'45	F 14
S 15	12 4 59	3°11'12	2°11'12	4°16'16	16°15'15	3°46'46	8°19'19	25°58'58	5°45'45	8° 9'09	24°15'15	0°33'33	8°32'32	7°38'38	22°20'20	S 15
S 16	12 8 56	4°10'21	14°42'42	17°59'59	4°59'59	9° 1'01	25°56'56	5°42'42	8° 9'09	24°14'14	0°33'33	8°30'30	7°35'35	22°27'27	26°51'51	S 16
M17	12 12 52	5° 9'29	27°38'38	19°44'44	6°11'11	9°43'43	25°53'53	5°38'38	8°10'10	24°12'12	0°32'32	8°29'29	7°32'32	22°33'33	26°55'55	M17
T 18	12 16 49	6° 8'34	10°35'35	21°30'30	7°24'24	10°25'25	25°51'51	5°34'34	8°10'10	24°11'11	0°32'32	8°D28	7°28'28	22°40'40	26°58'58	T 18
W19	12 20 45	7° 7'38	24°31'31	23°18'18	8°36'36	11° 7'07	25°48'48	5°30'30	8°11'11	24° 9'09	0°32'32	8°29'29	7°25'25	22°46'46	27° 2'02	W19
T 20	12 24 42	8° 6'40	8°33'33	25° 7'07	9°48'48	11°49'49	25°45'45	5°27'27	8°11'11	24° 7'07	0°31'31	8°31'31	7°22'22	22°53'53	27° 5'05	T 20
F 21	12 28 38	9° 5'40	22°59'59	26°58'58	11° 1'01	12°31'31	25°42'42	5°23'23	8°12'12	24° 6'06	0°31'31	8°32'32	7°19'19	23° 0'00	27° 9'09	F 21
S 22	12 32 35	10° 4'38	7°45'45	28°50'50	12°13'13	13°13'13	25°39'39	5°19'19	8°13'13	24° 4'04	0°30'30	8°R33	7°16'16	23° 6'06	27°13'13	S 22
S 23	12 36 32	11° 3'34	22°47'47	0°44'44	13°25'25	13°54'54	25°35'35	5°16'16	8°14'14	24° 3'03	0°30'30	8°32'32	7°13'13	23°13'13	27°16'16	S 23
M24	12 40 28	12° 2'29	7°47'47	2°39'39	14°37'37	14°36'36	25°32'32	5°13'13	8°14'14	24° 1'01	0°30'30	8°30'30	7° 9'09	23°20'20	27°20'20	M24
T 25	12 44 25	13° 1'21	23° 5'05	4°35'35	15°49'49	15°18'18	25°28'28	5° 9'09	8°15'15	23°59'59	0°30'30	8°26'26	7° 6'06	23°26'26	27°24'24	T 25
W26	12 48 21	14° 0'11	8° 2'02	6°33'33	17° 1'01	15°59'59	25°24'24	5° 6'06	8°16'16	23°58'58	0°29'29	8°21'21	7° 3'03	23°33'33	27°28'28	W26
T 27	12 52 18	14°58'59	22°39'39	8°33'33	18°13'13	16°41'41	25°20'20	5° 3'03	8°17'17	23°56'56	0°29'29	8°15'15	7° 0'00	23°40'40	27°32'32	T 27
F 28	12 56 14	15°57'46	6°12'50	10°34'34	19°25'25	17°23'23	25°15'15	5° 0'00	8°18'18	23°55'55	0°29'29	8°10'10	6°57'57	23°46'46	27°36'36	F 28
S 29	13 0 11	16°56'29	20°33'33	12°36'36	20°37'37	18° 4'04	25°11'11	4°57'57	8°19'19	23°53'53	0°29'29	8° 6'06	6°53'53	23°53'53	27°40'40	S 29
S 30	13 4 7	17°55'11	3°48'48	14°39'39	21°48'48	18°46'46	25° 6'06	4°54'54	8°21'21	23°52'52	0°29'29	8° 3'03	6°50'50	24° 0'00	27°44'44	S 30
M31	13 8 4	18°53'50	16°36'36	16°43'43	23°8 0'00	19°27'27	25°12'12	4°47'47	8°22'22	23°50'50	0°28'28	8°D 2'02	6°47'47	24°17'17	27°48'48	M31

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	4s14	27n30	5n17	15s 6	1s50	6n10	0s27	11n 7	0n11	18s17	1n 6	11n 2	2n 7	23n39	0n23	3n26	1n25	25n45	5n50	8s19	8s27	2n39	15n38	3s48	
S 2	3 51	28 30	5 5	14 43	1 55	6 41	0 25	11 23	0 11	18 17	1 6	11 3	2 7	23 39	0 23	3 27	1 25	25 45	5 50	8 19	8 29	2 35	15 39	3 48	
M 3	3 27	27 55	4 38	14 18	1 59	7 11	0 22	11 39	0 12	18 17	1 6	11 5	2 7	23 39	0 23	3 27	1 25	25 45	5 50	8 19	8 30	2 32	15 40	3 48	
T 4	3 4	25 56	3 59	13 51	2 3	7 42	0 19	11 54	0 13	18 17	1 6	11 7	2 7	23 39	0 23	3 28	1 25	25 45	5 50	8 18	8 31	2 29	15 41	3 48	
W 5	2 40	22 46	3 9	13 23	2 7	8 12	0 16	12 10	0 13	18 17	1 6	11 8	2 7	23 39	0 23	3 29	1 25	25 46	5 50	8 18	8 32	2 25	15 41	3 48	
T 6	2 16	18 41	2 12	12 54	2 10	8 42	0 14	12 25	0 14	18 17	1 6	11 10	2 7	23 39	0 23	3 29	1 25	25 46	5 50	8 17	8 33	2 22	15 42	3 48	
F 7	1 53	13 54	1 9	12 24	2 13	9 11	0 11	12 40	0 15	18 17	1 6	11 12	2 7	23 39	0 23	3 30	1 25	25 46	5 50	8 17	8 34	2 18	15 43	3 47	
S 8	1 29	8 39	0 4	11 52	2 15	9 41	0 8	12 56	0 15	18 16	1 6	11 13	2 7	23 39	0 23	3 31	1 25	25 46	5 50	8 17	8 36	2 15	15 44	3 47	
S 9	1 6	3 6	1s 0	11 19	2 17	10 10	0 5	13 11	0 16	18 16	1 7	11 15	2 7	23 39	0 23	3 31	1 25	25 46	5 50	8 17	8 37	2 11	15 45	3 47	
M10	0 42	2s32	2 3	10 45	2 18	10 39	0 2	13 26	0 17	18 16	1 7	11 16	2 7	23 39	0 23	3 32	1 25	25 46	5 50	8 17	8 38	2 8	15 45	3 47	
T 11	0 18	8 6	3 0	10 9	2 19	11 8	0n 1	13 40	0 17	18 15	1 7	11 18	2 7	23 39	0 23	3 33	1 25	25 46	5 50	8 18	8 39	2 5	15 46	3 47	
W12	0n 5	13 25	3 49	9 32	2 20	11 37	0 4	13 55	0 18	18 15	1 7	11 20	2 7	23 39	0 23	3 33	1 25	25 46	5 50	8 19	8 40	2 1	15 47	3 47	
T 13	0 29	18 17	4 29	8 54	2 20	12 5	0 7	14 10	0 19	18 14	1 7	11 21	2 7	23 39	0 23	3 34	1 25	25 46	5 50	8 21	8 42	1 58	15 48	3 47	
F 14	0 53	22 29	4 57	8 15	2 20	12 33	0 10	14 24	0 19	18 14	1 7	11 22	2 7	23 39	0 23	3 35	1 25	25 46	5 49	8 22	8 43	1 54	15 49	3 47	
S 15	1 16	25 44	5 12	7 34	2 19	13 1	0 13	14 38	0 20	18 13	1 7	11 24	2 7	23 39	0 23	3 35	1 25	25 46	5 49	8 24	8 44	1 51	15 50	3 46	
S 16	1 40	27 48	5 12	6 52	2 17	13 28	0 16	14 52	0 21	18 13	1 7	11 25	2 7	23 39	0 23	3 36	1 25	25 46	5 49	8 24	8 45	1 48	15 51	3 46	
M17	2 3	28 26	4 57	6 9	2 15	13 55	0 19	15 6	0 21	18 12	1 7	11 27	2 7	23 39	0 23	3 37	1 25	25 47	5 49	8 25	8 46	1 44	15 51	3 46	
T 18	2 27	27 29	4 26	5 25	2 13	14 22	0 22	15 20	0 22	18 11	1 7	11 28	2 7	23 39	0 23	3 37	1 25	25 47	5 49	8 25	8 48	1 41	15 52	3 46	
W19	2 50	24 52	3 38	4 39	2 10	14 49	0 25	15 34	0 22	18 10	1 8	11 29	2 7	23 39	0 23	3 38	1 25	25 47	5 49	8 25	8 49	1 37	15 53	3 46	
T 20	3 14	20 42	2 37	3 53	2 6	15 15	0 28	15 48	0 23	18 10	1 8	11 31	2 7	23 39	0 23	3 38	1 25	25 47	5 49	8 24	8 50	1 34	15 54	3 46	
F 21	3 37	15 14	1 24	3 5	2 3	15 41	0 31	16 1	0 24	18 9	1 8	11 32	2 7	23 39	0 23	3 39	1 25	25 47	5 49	8 24	8 51	1 30	15 55	3 46	
S 22	4 0	8 45	0 4	2 16	1 58	16 6	0 35	16 14	0 24	18 8	1 8	11 33	2 7	23 39	0 23	3 40	1 25	25 47	5 49	8 23	8 52	1 27	15 56	3 46	
S 23	4 23	1 41	1n17	1 26	1 53	16 31	0 38	16 27	0 25	18 7	1 8	11 34	2 7	23 39	0 23	3 40	1 25	25 47	5 49	8 24	8 53	1 24	15 57	3 46	
M24	4 46	5n31	2 34	0 35	1 48	16 55	0 41	16 40	0 25	18 6	1 8	11 36	2 7	23 38	0 23	3 41	1 25	25 47	5 49	8 25	8 55	1 20	15 58	3 46	
T 25	5 9	12 24	3 40	0n17	1 42	17 20	0 44	16 53	0 26	18 5	1 8	11 37	2 7	23 38	0 23	3 42	1 25	25 47	5 49	8 26	8 56	1 17	15 59	3 46	
W26	5 32	18 28	4 29	1 9	1 35	17 43	0 47	17 6	0 27	18 4	1 8	11 38	2 7	23 38	0 23	3 42	1 25	25 47	5 49	8 28	8 57	1 13	16 0	3 45	
T 27	5 55	23 19	5 0	2 3	1 28	18 6	0 50	17 19	0 27	18 3	1 8	11 39	2 6	23 38	0 23	3 43	1 25	25 47	5 49	8 30	8 58	1 10	16 1	3 45	
F 28	6 18	26 38	5 11	2 57	1 21	18 29	0 53	17 31	0 28	18 2	1 8	11 40	2 6	23 38	0 23	3 43	1 25	25 46	5 48	8 32	8 59	1 7	16 2	3 45	
S 29	6 41	28 14	5 4	3 52	1 13	18 52	0 56	17 43	0 28	18 1	1 8	11 41	2 6	23 38	0 23	3 44	1 25	25 46	5 48	8 33	9 1	1 3	16 3	3 45	
S 30	7 3	28 8	4 41	4 48	1 4	19 14	0 59	17 55	0 29	18 0	1 8	11 42	2 6	23 38	0 23	3 45	1 25	25 46	5 48	8 34	9 2	1 0	16 4	3 45	
M31	7n25	26n30	4n 4	5n44	0s55	19n35	1n 2	18n 7	0n29	17s58	1n 8	11n43	2n 6	23n38	0n23	3n45	1n25	25n46	5n48	8s35	9s 3	0n56	16n 5	3s45	

ASTRODIENST EPHEMERIS for the year 1449

geocentric

APRIL 1449 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	13 12 1	19°52'28	29°3	18°49	24°12	20°8	24°R57	4°R49	8°23	23°R49	0°R28	8°3	6°44	24°13	27°52	T 1
W 2	13 15 57	20°51'02	11°12	20°55	25°23	20°50	24°M52	4°M46	8°24	23°M47	0°M28	8°4	6°41	24°20	27°56	W 2
T 3	13 19 54	21°49'35	23°10	23°2	26°34	21°31	24°46	4°44	8°26	23°46	0°28	8°5	6°38	24°26	28°0	T 3
F 4	13 23 50	22°48'05	4°M59	25°10	27°46	22°12	24°41	4°41	8°27	23°45	0°D28	8°R 6	6°34	24°33	28°4	F 4
S 5	13 27 47	23°46'34	16°46	27°18	28°57	22°54	24°35	4°39	8°29	23°43	0°28	8°6	6°31	24°40	28°9	S 5
S 6	13 31 43	24°45'00	28°34	29°25	0°II 8	23°35	24°30	4°37	8°30	23°42	0°28	8°4	6°28	24°46	28°13	S 6
M 7	13 35 40	25°43'24	10°25	1°833	1°19	24°16	24°24	4°35	8°32	23°41	0°28	7°59	6°25	24°53	28°17	M 7
T 8	13 39 36	26°41'46	22°22	3°41	2°30	24°57	24°18	4°33	8°33	23°39	0°29	7°53	6°22	25°0	28°21	T 8
W 9	13 43 33	27°40'07	4°M28	5°47	3°41	25°38	24°12	4°31	8°35	23°38	0°29	7°45	6°18	25°6	28°26	W 9
T 10	13 47 30	28°38'25	16°43	7°52	4°52	26°19	24°6	4°29	8°37	23°37	0°29	7°35	6°15	25°13	28°30	T 10
F 11	13 51 26	29°36'42	29°8	9°56	6°2	27°0	24°0	4°27	8°39	23°35	0°29	7°26	6°12	25°19	28°35	F 11
S 12	13 55 23	0°B34'57	11°45	11°59	7°13	27°41	23°53	4°25	8°40	23°34	0°29	7°17	6°9	25°26	28°39	S 12
S 13	13 59 19	1°33'11	24°33	13°59	8°23	28°22	23°47	4°24	8°42	23°33	0°29	7°10	6°6	25°33	28°43	S 13
M14	14 3 16	2°31'23	7°35	15°57	9°34	29°3	23°40	4°22	8°44	23°32	0°30	7°5	6°3	25°39	28°48	M14
T 15	14 7 12	3°29'34	20°53	17°53	10°44	29°44	23°34	4°21	8°46	23°30	0°30	7°2	5°59	25°46	28°53	T 15
W16	14 11 9	4°27'43	4°27	19°45	11°54	0°II25	23°27	4°20	8°48	23°29	0°30	7°D 1	5°56	25°53	28°57	W16
T 17	14 15 5	5°25'51	18°19	21°35	13°4	1°5	23°20	4°19	8°50	23°28	0°31	7°2	5°53	25°59	29°2	T 17
F 18	14 19 2	6°23'57	2°H29	23°21	14°14	1°46	23°13	4°18	8°52	23°27	0°31	7°R 2	5°50	26°6	29°6	F 18
S 19	14 22 59	7°22'02	16°57	25°5	15°24	2°27	23°6	4°17	8°54	23°26	0°31	7°2	5°47	26°13	29°11	S 19
S 20	14 26 55	8°20'05	1°Y40	26°45	16°34	3°8	22°59	4°16	8°56	23°25	0°32	7°0	5°44	26°19	29°16	S 20
M21	14 30 52	9°18'07	16°32	28°21	17°44	3°48	22°52	4°15	8°59	23°24	0°32	6°55	5°40	26°26	29°20	M21
T 22	14 34 48	10°16'07	1°B27	29°54	18°54	4°29	22°45	4°15	9°1	23°23	0°33	6°48	5°37	26°33	29°25	T 22
W23	14 38 45	11°14'06	16°15	1°II22	20°3	5°9	22°37	4°14	9°3	23°22	0°33	6°39	5°34	26°39	29°30	W23
T 24	14 42 41	12°12'04	0°II48	2°48	21°12	5°50	22°30	4°14	9°5	23°21	0°34	6°29	5°31	26°46	29°34	T 24
F 25	14 46 38	13°9'59	15°0	4°9	22°22	6°30	22°22	4°13	9°8	23°20	0°34	6°19	5°28	26°53	29°39	F 25
S 26	14 50 34	14°7'54	28°46	5°26	23°31	7°11	22°15	4°13	9°10	23°19	0°35	6°10	5°24	26°59	29°44	S 26
S 27	14 54 31	15°5'46	12°4	6°39	24°40	7°51	22°8	4°D13	9°13	23°18	0°35	6°4	5°21	27°6	29°49	S 27
M28	14 58 28	16°3'37	24°56	7°49	25°49	8°32	22°0	4°13	9°15	23°17	0°36	6°0	5°18	27°13	29°54	M28
T 29	15 2 24	17°1'25	7°125	8°54	26°58	9°12	21°52	4°13	9°18	23°16	0°37	5°58	5°15	27°19	29°58	T 29
W30	15 6 21	17°59'12	19°136	9°II55	28°II 6	9°II52	21°M45	4°M13	9°20	23°M15	0°M37	5°D58	5°H12	27°M26	0°II 3	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	7n48	23n37	3n16	6n41	0s46	19n56	1n 5	18n19	0n30	17s57	1n 8	11n44	2n 6	23n38	0n23	3n46	1n25	25n46	5n48	8s35	9s 4	0n53	16n 5	3s45			
W 2	8 10	19 43	2 21	7 38	0 36	20 16	1 8	18 31	0 31	17 56	1 9	11 44	2 6	23 38	0 23	3 46	1 25	25 46	5 48	8 34	9 5	0 50	16 6	3 45			
T 3	8 32	15 6	1 20	8 34	0 26	20 36	1 11	18 42	0 31	17 55	1 9	11 45	2 6	23 38	0 23	3 47	1 25	25 46	5 48	8 34	9 6	0 46	16 7	3 45			
F 4	8 54	9 58	0 17	9 31	0 16	20 55	1 14	18 53	0 32	17 53	1 9	11 46	2 6	23 38	0 23	3 47	1 25	25 46	5 48	8 33	9 8	0 43	16 8	3 45			
S 5	9 15	4 31	0s47	10 27	0 6	21 14	1 17	19 4	0 32	17 52	1 9	11 47	2 5	23 37	0 23	3 48	1 25	25 46	5 48	8 33	9 9	0 39	16 9	3 45			
S 6	9 37	1s 5	1 48	11 23	0n 5	21 33	1 20	19 15	0 33	17 51	1 9	11 48	2 5	23 37	0 23	3 48	1 25	25 46	5 48	8 34	9 10	0 36	16 10	3 45			
M 7	9 58	6 40	2 45	12 18	0 16	21 50	1 23	19 26	0 33	17 49	1 9	11 48	2 5	23 37	0 23	3 49	1 25	25 46	5 48	8 36	9 11	0 32	16 11	3 45			
T 8	10 20	12 4	3 36	13 12	0 27	22 7	1 26	19 37	0 34	17 48	1 9	11 49	2 5	23 37	0 23	3 49	1 25	25 46	5 48	8 38	9 12	0 29	16 12	3 44			
W 9	10 41	17 4	4 17	14 5	0 37	22 24	1 28	19 47	0 34	17 46	1 9	11 49	2 5	23 37	0 23	3 50	1 25	25 46	5 47	8 41	9 13	0 26	16 13	3 44			
T 10	11 1	21 27	4 46	14 56	0 48	22 40	1 31	19 57	0 35	17 45	1 9	11 50	2 5	23 37	0 23	3 50	1 25	25 45	5 47	8 45	9 15	0 22	16 14	3 44			
F 11	11 22	24 57	5 3	15 46	0 59	22 55	1 34	20 7	0 35	17 43	1 9	11 51	2 5	23 37	0 23	3 51	1 25	25 45	5 47	8 48	9 16	0 19	16 15	3 44			
S 12	11 43	27 18	5 5	16 34	1 9	23 10	1 36	20 17	0 36	17 42	1 9	11 51	2 5	23 37	0 23	3 51	1 25	25 45	5 47	8 52	9 17	0 15	16 16	3 44			
S 13	12 3	28 16	4 52	17 20	1 19	23 24	1 39	20 27	0 36	17 40	1 9	11 51	2 5	23 36	0 23	3 52	1 25	25 45	5 47	8 54	9 18	0 12	16 17	3 44			
M14	12 23	27 41	4 24	18 4	1 28	23 38	1 42	20 36	0 37	17 38	1 9	11 52	2 4	23 36	0 23	3 52	1 25	25 45	5 47	8 56	9 19	0 9	16 18	3 44			
T 15	12 43	25 32	3 41	18 46	1 37	23 50	1 44	20 46	0 37	17 37	1 9	11 52	2 4	23 36	0 23	3 53	1 25	25 45	5 47	8 57	9 21	0 5	16 19	3 44			
W16	13 3	21 53	2 45	19 25	1 46	24 3	1 47	20 55	0 38	17 35	1 9	11 53	2 4	23 36	0 23	3 53	1 25	25 45	5 47	8 58	9 22	0 2	16 20	3 44			
T 17	13 22	16 57	1 39	20 3	1 54	24 14	1 49	21 4	0 38	17 33	1 9	11 53	2 4	23 36	0 23	3 54	1 25	25 44	5 47	8 57	9 23	0s 2	16 21	3 44			
F 18	13 42	11 0	0 24	20 37	2 1	24 25	1 51	21 13	0 39	17 32	1 9	11 53	2 4	23 36	0 23	3 54	1 25	25 44	5 47	8 57	9 24	0 5	16 22	3 44			
S 19	14 1	4 22	0n53	21 9	2 7	24 36	1 54	21 21	0 39	17 30	1 9	11 53	2 4	23 36	0 23	3 55	1 25	25 44	5 47	8 57	9 25	0 8	16 23	3 44			
S 20	14 20	2n37	2 8	21 39	2 13	24 45	1 56	21 30	0 40	17 28	1 9	11 53	2 4	23 35	0 23	3 55	1 25	25 44	5 46	8 58	9 26	0 12	16 24	3 44			
M21	14 38	9 31	3 14	22 6	2 18	24 54	1 58	21 38	0 40	17 26	1 9	11 54	2 3	23 35	0 23	3 55	1 24	25 44	5 46	9 0	9 28	0 15	16 25	3 44			
T 22	14 57	15 53	4 8	22 30	2 22	25 3	2 0	21 46	0 41	17 24	1 9	11 54	2 3	23 35	0 23	3 56	1 24	25 44	5 46	9 3	9 29	0 19	16 26	3 44			
W23	15 15	21 17	4 45	22 52	2 25	25 10	2 2	21 54	0 41	17 23	1 9	11 54	2 3	23 35	0 23	3 56	1 24	25 43	5 46	9 6	9 30	0 22	16 27	3 44			
T 24	15 33	25 18	5 2	23 12	2 28	25 17	2 4	22 2	0 42	17 21	1 9	11 54	2 3	23 35	0 23	3 56	1 24	25 43	5 46	9 10	9 31	0 26	16 28	3 44			
F 25	15 50	27 38	5 0	23 29	2 30	25 23	2 6	22 9	0 42	17 19	1 9	11 54	2 3	23 35	0 23	3 57	1 24	25 43	5 46	9 13	9 32	0 29	16 29	3 44			
S 26	16 8	28 11	4 40	23 44	2 30	25 29	2 8	22 16	0 42	17 17	1 8	11 54	2 3	23 34	0 23	3 57	1 24	25 43	5 46	9 16	9 33	0 32	16 30	3 44			
S 27	16 25	27 3	4 6	23 57	2 30	25 34	2 10	22 23	0 43	17 15	1 8	11 54	2 3	23 34	0 23	3 57	1 24	25 43	5 46	9 19	9 35	0 36	16 31	3 44			
M28	16 42	24 29	3 20	24 8	2 29	25 38	2 11	22 30	0 43	17 13	1 8	11 53	2 2	23 34	0 23	3 58	1 24	25 42	5 46	9 20	9 36	0 39	16 32	3 44			
T 29	16 58	20 49	2 26	24 16	2 27	25 42	2 13	22 37	0 44	17 11	1 8	11 53	2 2	23 34	0 23	3 58	1 24	25 42	5 46	9 21	9 37	0 43	16 33	3 44			
W30	17n15	16n21	1n26	24n22	2n24	25n45	2n15	22n44	0n44	17s10	1n 8	11n53	2n 2	23n34	0n23	3n58	1n24	25n42	5n46	9s21	9s38	0s46	16n34	3s44			

ASTRODIENST EPHEMERIS for the year 1449
geocentric

MAY 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 10 17	18°56'58	1°17'33	10°11'52	29°11'15	10°11'33	21°18'37	4°17'14	9°23'23	23°18'15	0°12'38	5°18'58	5°18'9	27°17'33	0°11'8	T 1
F 2	15 14 14	19°54'41	13°23'23	11°44'00	0°23'23	11°11'13	21°18'30	4°14'14	9°25'25	23°17'14	0°39'39	5°18'58	5°18'5	27°37'39	0°13'13	F 2
S 3	15 18 10	20°52'23	25°11'11	12°32'12	1°32'12	11°53'11	21°22'22	4°15'15	9°28'28	23°13'13	0°40'40	5°56'56	5°18'2	27°46'46	0°18'18	S 3
S 4	15 22 7	21°50'04	7°15'00	13°16'16	2°40'40	12°33'33	21°14'14	4°15'15	9°31'31	23°12'12	0°40'40	5°52'52	4°59'59	27°53'53	0°23'23	S 4
M 5	15 26 3	22°47'43	18°56'56	13°55'55	3°48'48	13°13'13	21°7'07	4°16'16	9°33'33	23°12'12	0°41'41	5°46'46	4°56'56	27°59'59	0°27'27	M 5
T 6	15 30 0	23°45'20	1°18'18	14°30'30	4°56'56	13°54'54	20°59'59	4°17'17	9°36'36	23°11'11	0°42'42	5°37'37	4°53'53	28°6'06	0°32'32	T 6
W 7	15 33 57	24°42'56	13°18'18	14°59'59	6°3'03	14°34'34	20°51'51	4°18'18	9°39'39	23°11'11	0°43'43	5°26'26	4°50'50	28°13'13	0°37'37	W 7
T 8	15 37 53	25°40'31	25°40'31	15°25'25	7°11'11	15°14'14	20°44'44	4°19'19	9°42'42	23°10'10	0°44'44	5°13'13	4°46'46	28°19'19	0°42'42	T 8
F 9	15 41 50	26°38'05	8°17'30	15°45'45	8°18'18	15°54'54	20°36'36	4°20'20	9°45'45	23°9'09	0°45'45	5°0'00	4°43'43	28°26'26	0°47'47	F 9
S 10	15 45 46	27°35'38	21°26'26	16°1'01	9°26'26	16°34'34	20°29'29	4°21'21	9°47'47	23°9'09	0°45'45	4°48'48	4°40'40	28°32'32	0°52'52	S 10
S 11	15 49 43	28°33'09	4°33'33	16°12'12	10°33'33	17°14'14	20°21'21	4°23'23	9°50'50	23°8'08	0°46'46	4°38'38	4°37'37	28°39'39	0°57'57	S 11
M 12	15 53 39	29°30'40	17°51'51	16°19'19	11°40'40	17°53'53	20°14'14	4°24'24	9°53'53	23°8'08	0°47'47	4°31'31	4°34'34	28°46'46	1°2'02	M 12
T 13	15 57 36	0°11'28'10	1°18'21	16°18'21	12°47'47	18°33'33	20°6'06	4°26'26	9°56'56	23°8'08	0°48'48	4°26'26	4°30'30	28°52'52	1°7'07	T 13
W 14	16 1 32	1°25'38	15°1'01	16°18'18	13°53'53	19°13'13	19°59'59	4°27'27	9°59'59	23°7'07	0°49'49	4°24'24	4°27'27	28°59'59	1°12'12	W 14
T 15	16 5 29	2°23'06	28°53'53	16°11'11	15°0'00	19°53'53	19°52'52	4°29'29	10°2'02	23°7'07	0°50'50	4°24'24	4°24'24	29°6'06	1°17'17	T 15
F 16	16 9 26	3°20'34	12°18'55	15°59'59	16°6'06	20°33'33	19°44'44	4°31'31	10°5'05	23°6'06	0°51'51	4°23'23	4°21'21	29°12'12	1°22'22	F 16
S 17	16 13 22	4°18'00	27°9'09	15°44'44	17°12'12	21°13'13	19°37'37	4°33'33	10°9'09	23°6'06	0°52'52	4°23'23	4°18'18	29°19'19	1°26'26	S 17
S 18	16 17 19	5°15'26	11°17'32	15°25'25	18°18'18	21°52'52	19°30'30	4°35'35	10°12'12	23°6'06	0°53'53	4°20'20	4°15'15	29°26'26	1°31'31	S 18
M 19	16 21 15	6°12'51	26°2'02	15°2'02	19°24'24	22°32'32	19°23'23	4°37'37	10°15'15	23°6'06	0°55'55	4°14'14	4°11'11	29°32'32	1°36'36	M 19
T 20	16 25 12	7°10'16	10°18'33	14°36'36	20°29'29	23°12'12	19°16'16	4°39'39	10°18'18	23°5'05	0°56'56	4°6'06	4°8'08	29°39'39	1°41'41	T 20
W 21	16 29 8	8°7'40	25°0'00	14°8'08	21°34'34	23°51'51	19°9'09	4°42'42	10°21'21	23°5'05	0°57'57	3°55'55	4°5'05	29°46'46	1°46'46	W 21
T 22	16 33 5	9°5'03	9°11'15	13°38'38	22°40'40	24°31'31	19°2'02	4°44'44	10°24'24	23°5'05	0°58'58	3°44'44	4°2'02	29°52'52	1°51'51	T 22
F 23	16 37 1	10°2'25	23°14'14	13°6'06	23°45'45	25°11'11	18°55'55	4°46'46	10°28'28	23°5'05	0°59'59	3°32'32	3°59'59	29°59'59	1°56'56	F 23
S 24	16 40 58	10°59'47	6°51'51	12°33'33	24°49'49	25°50'50	18°49'49	4°49'49	10°31'31	23°5'05	1°0'00	3°22'22	3°56'56	0°12'12	2°1'01	S 24
S 25	16 44 55	11°57'08	20°5'05	11°59'59	25°54'54	26°30'30	18°42'42	4°52'52	10°34'34	23°5'05	1°2'02	3°14'14	3°52'52	0°12'12	2°6'06	S 25
M 26	16 48 51	12°54'27	2°12'55	11°26'26	26°58'58	27°9'09	18°36'36	4°55'55	10°38'38	23°10'10	1°3'03	3°8'08	3°49'49	0°19'19	2°11'11	M 26
T 27	16 52 48	13°51'46	15°25'25	10°53'53	28°2'02	27°49'49	18°29'29	4°58'58	10°41'41	23°5'05	1°4'04	3°5'05	3°46'46	0°26'26	2°16'16	T 27
W 28	16 56 44	14°49'04	27°36'36	10°21'21	29°6'06	28°28'28	18°23'23	5°1'01	10°44'44	23°5'05	1°5'05	3°4'04	3°43'43	0°32'32	2°20'20	W 28
T 29	17 0 41	15°46'21	9°17'32	9°51'51	0°12'12	29°8'08	18°17'17	5°4'04	10°48'48	23°5'05	1°7'07	3°4'04	3°40'40	0°39'39	2°25'25	T 29
F 30	17 4 37	16°43'37	21°26'26	9°23'23	1°13'13	29°47'47	18°11'11	5°7'07	10°51'51	23°5'05	1°8'08	3°4'04	3°36'36	0°46'46	2°30'30	F 30
S 31	17 8 34	17°11'40'52	3°15'15	8°11'58	2°12'16	0°26'26	18°18'18	5°10'10	10°54'54	23°10'10	1°12'12	3°18'18	3°33'33	0°12'12	2°11'11	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
T 1	17n31	11n19	0n23	24n27	2n20	25n47	2n16	22n50	0n45	17s 8	1n 8	11n53	2n 2	23n34	0n23	3n59
F 2	17 46	5 57	0s39	24 29	2 15	25 48	2 17	22 56	0 45	17 6	1 8	11 52	2 2	23 33	0 23	3 59
S 3	18 2	0 23	1 40	24 30	2 9	25 49	2 19	23 2	0 45	17 4	1 8	11 52	2 2	23 33	0 23	3 59
S 4	18 17	5s11	2 37	24 29	2 2	25 49	2 20	23 8	0 46	17 2	1 8	11 52	2 1	23 33	0 23	3 59
M 5	18 32	10 37	3 27	24 26	1 54	25 48	2 21	23 13	0 46	17 0	1 8	11 51	2 1	23 33	0 23	4 0
T 6	18 46	15 44	4 8	24 21	1 45	25 47	2 22	23 19	0 47	16 58	1 8	11 51	2 1	23 33	0 23	4 0
W 7	19 0	20 18	4 39	24 15	1 36	25 45	2 23	23 24	0 47	16 56	1 8	11 50	2 1	23 32	0 23	4 0
T 8	19 14	24 4	4 56	24 7	1 25	25 43	2 24	23 29	0 47	16 54	1 7	11 50	2 1	23 32	0 23	4 0
F 9	19 28	26 43	5 0	23 58	1 13	25 39	2 24	23 33	0 48	16 53	1 7	11 49	2 1	23 32	0 23	4 1
S 10	19 41	28 2	4 48	23 47	1 1	25 35	2 25	23 38	0 48	16 51	1 7	11 49	2 1	23 32	0 23	4 1
S 11	19 54	27 47	4 21	23 35	0 47	25 31	2 26	23 42	0 49	16 49	1 7	11 48	2 0	23 31	0 23	4 1
M 12	20 6	25 57	3 39	23 22	0 33	25 25	2 26	23 46	0 49	16 47	1 7	11 47	2 0	23 31	0 23	4 1
T 13	20 19	22 36	2 45	23 7	0 19	25 19	2 26	23 50	0 49	16 45	1 7	11 47	2 0	23 31	0 23	4 1
W 14	20 31	17 59	1 41	22 51	0 3	25 13	2 26	23 54	0 50	16 43	1 7	11 46	2 0	23 31	0 23	4 1
T 15	20 42	12 21	0 29	22 35	0s13	25 6	2 27	23 57	0 50	16 41	1 7	11 45	2 0	23 31	0 23	4 1
F 16	20 53	6 2	0n45	22 17	0 30	24 58	2 26	24 1	0 50	16 40	1 6	11 44	2 0	23 30	0 23	4 1
S 17	21 4	0n39	1 57	21 58	0 47	24 49	2 26	24 4	0 51	16 38	1 6	11 44	1 59	23 30	0 23	4 2
S 18	21 15	7 23	3 3	21 39	1 4	24 40	2 26	24 7	0 51	16 36	1 6	11 43	1 59	23 30	0 23	4 2
M 19	21 25	13 46	3 57	21 20	1 21	24 31	2 26	24 10	0 51	16 34	1 6	11 42	1 59	23 30	0 23	4 2
T 20	21 34	19 24	4 36	21 0	1 38	24 20	2 25	24 12	0 52	16 32	1 6	11 41	1 59	23 29	0 23	4 2
W 21	21 44	23 52	4 57	20 39	1 55	24 9	2 25	24 14	0 52	16 31	1 6	11 40	1 59	23 29	0 23	4 2
T 22	21 53	26 50	4 59	20 19	2 12	23 58	2 24	24 16	0 53	16 29	1 5	11 39	1 59	23 29	0 23	4 2
F 23	22 1	28 3	4 43	19 59	2 28	23 46	2 23	24 18	0 53	16 27	1 5	11 38	1 59	23 29	0 23	4 2
S 24	22 10	27 31	4 11	19 40	2 44	23 33	2 22	24 20	0 53	16 26	1 5	11 36	1 58	23 28	0 23	4 2
S 25	22 18	25 25	3 27	19 20	2 59	23 20	2 21	24 21	0 54	16 24	1 5	11 35	1 58	23 28	0 23	4 2
M 26	22 25	22 2	2 32	19 2	3 13	23 7	2 20	24 23	0 54	16 23	1 5	11 34	1 58	23 28	0 23	4 2
T 27	22 32	17 44	1 32	18 45	3 26	22 53	2 18	24 24	0 54	16 21	1 4	11 33	1 58	23 27	0 23	4 2
W 28	22 39	12 48	0 29	18 29	3 37	22 38	2 17	24 25	0 54	16 19	1 4	11 32	1 58	23 27	0 23	4 2
T 29	22 45	7 28	0s35	18 14	3 48	22 23	2 15	24 25	0 55	16 18	1 4	11 30	1 58	23 27	0 23	4 2
F 30	22 51	1 56	1 36	18 1	3 57	22 7	2 13	24 26	0 55	16 17	1 4	11 29	1 58	23 27	0 23	4 1
S 31	22n56	3s38	2s33	17n50	4s 5	21n51	2n11	24n26	0n55	16s15	1n 4	11n28	1n57	23n26	0n23	4n 1

Julian Day Number = 2250425.5, Delta T = 06m31s
Ecliptic obliquity = 23°30'47", Nutation = 0°00'06", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°03'28", Lahiri = 16°10'29" Julian Calendar 1 May 1449 == Greg. Calendar 10 May 1449

ASTRODIENST EPHEMERIS for the year 1449

geocentric

JUNE 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 12 30	18°38'06	15°57' 7	8°R36	3♂19	1♂6	17°R59	5♂13	10♂58	23♂5	1♂11	3°R 0	3♂30	0♂59	2♂40	S 1
M 2	17 16 27	19°35'20	27° 7	8♂18	4°21	1°45	17♂54	5°17	11° 1	23° 6	1°12	2♂55	3°27	1° 6	2°45	M 2
T 3	17 20 24	20°32'33	9♂19	8° 3	5°23	2°24	17°48	5°20	11° 5	23° 6	1°13	2°47	3°24	1°12	2°49	T 3
W 4	17 24 20	21°29'45	21°46	7°53	6°25	3° 3	17°43	5°24	11° 8	23° 6	1°15	2°38	3°21	1°19	2°54	W 4
T 5	17 28 17	22°26'57	4♂29	7°46	7°27	3°43	17°38	5°28	11°12	23° 6	1°16	2°27	3°17	1°26	2°59	T 5
F 6	17 32 13	23°24'08	17°28	7°D45	8°28	4°22	17°33	5°32	11°15	23° 7	1°18	2°15	3°14	1°32	3° 4	F 6
S 7	17 36 10	24°21'20	0♂44	7°48	9°29	5° 1	17°28	5°35	11°19	23° 7	1°19	2° 4	3°11	1°39	3° 8	S 7
S 8	17 40 6	25°18'30	14°14	7°55	10°30	5°40	17°23	5°39	11°22	23° 8	1°21	1°55	3° 8	1°46	3°13	S 8
M 9	17 44 3	26°15'41	27°56	8° 8	11°30	6°19	17°19	5°43	11°26	23° 8	1°22	1°49	3° 5	1°52	3°18	M 9
T 10	17 48 0	27°12'51	11♂46	8°25	12°30	6°59	17°14	5°48	11°29	23° 9	1°24	1°45	3° 2	1°59	3°22	T 10
W11	17 51 56	28°10'02	25°44	8°47	13°29	7°38	17°10	5°52	11°33	23° 9	1°25	1°D43	2°58	2° 6	3°27	W11
T 12	17 55 53	29° 7'12	9♂46	9°14	14°29	8°17	17° 6	5°56	11°36	23°10	1°27	1°43	2°55	2°12	3°32	T 12
F 13	17 59 49	0♂43	23°53	9°45	15°27	8°56	17° 2	6° 0	11°40	23°10	1°28	1°R44	2°52	2°19	3°36	F 13
S 14	18 3 46	1° 1'34	8♂Y 2	10°21	16°26	9°35	16°58	6° 5	11°44	23°11	1°30	1°44	2°49	2°26	3°41	S 14
S 15	18 7 42	1°58'44	22°12	11° 2	17°24	10°14	16°54	6° 9	11°47	23°11	1°31	1°42	2°46	2°32	3°45	S 15
M16	18 11 39	2°55'56	6♂23	11°48	18°22	10°53	16°51	6°14	11°51	23°12	1°33	1°38	2°42	2°39	3°50	M16
T 17	18 15 35	3°53'07	20°29	12°38	19°19	11°32	16°48	6°19	11°54	23°13	1°34	1°32	2°39	2°46	3°54	T 17
W18	18 19 32	4°50'19	4♂30	13°32	20°15	12°11	16°45	6°23	11°58	23°13	1°36	1°24	2°36	2°52	3°59	W18
T 19	18 23 29	5°47'31	18°20	14°32	21°12	12°50	16°42	6°28	12° 2	23°14	1°38	1°15	2°33	2°59	4° 3	T 19
F 20	18 27 25	6°44'43	1♂56	15°35	22° 8	13°28	16°39	6°33	12° 5	23°15	1°39	1° 6	2°30	3° 6	4° 8	F 20
S 21	18 31 22	7°41'56	15°15	16°43	23° 3	14° 7	16°36	6°38	12° 9	23°16	1°41	0°58	2°27	3°12	4°12	S 21
S 22	18 35 18	8°39'08	28°16	17°55	23°58	14°46	16°34	6°43	12°13	23°17	1°42	0°52	2°23	3°19	4°16	S 22
M23	18 39 15	9°36'21	10♂27	19°11	24°52	15°25	16°32	6°48	12°16	23°17	1°44	0°48	2°20	3°26	4°21	M23
T 24	18 43 11	10°33'33	23°21	20°31	25°46	16° 4	16°29	6°53	12°20	23°18	1°46	0°46	2°17	3°32	4°25	T 24
W25	18 47 8	11°30'46	5♂31	21°56	26°39	16°43	16°28	6°59	12°24	23°19	1°47	0°D46	2°14	3°39	4°29	W25
T 26	18 51 4	12°27'58	17°29	23°24	27°32	17°21	16°26	7° 4	12°27	23°20	1°49	0°47	2°11	3°46	4°33	T 26
F 27	18 55 1	13°25'11	29°20	24°56	28°24	18° 0	16°24	7° 9	12°31	23°21	1°51	0°48	2° 8	3°52	4°38	F 27
S 28	18 58 58	14°22'23	11♂10	26°32	29°15	18°39	16°23	7°15	12°34	23°22	1°52	0°R49	2° 4	3°59	4°42	S 28
S 29	19 2 54	15°19'36	23° 3	28°12	0♂6	19°18	16°22	7°20	12°38	23°23	1°54	0°49	2° 1	4° 6	4°46	S 29
M30	19 6 51	16°26'49	5♂5	29♂55	0♂56	19°56	16♂21	7♂26	12°42	23♂24	1♂56	0°47	1♂58	4♂12	4♂50	M30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23n 1	9s 6	3s24	17n40	4s12	21n34	2n 9	24n26	0n56	16s14	1n 3	11n26	1n57	23n26	0n23	4n 1	1n23	25n33	5n44	10s26	10s15	2s34	17n 2	3s48			
M 2	23 6	14 18	4 6	17 32	4 17	21 17	2 7	24 26	0 56	16 12	1 3	11 25	1 57	23 26	0 23	4 1	1 23	25 32	5 44	10 28	10 16	2 38	17 3	3 48			
T 3	23 10	19 1	4 37	17 26	4 20	21 0	2 5	24 26	0 56	16 11	1 3	11 24	1 57	23 26	0 23	4 1	1 23	25 32	5 44	10 31	10 18	2 41	17 4	3 48			
W 4	23 14	23 2	4 57	17 22	4 23	20 42	2 2	24 25	0 57	16 10	1 3	11 22	1 57	23 25	0 23	4 1	1 23	25 32	5 44	10 34	10 19	2 45	17 4	3 48			
T 5	23 18	26 3	5 2	17 20	4 24	20 24	2 0	24 25	0 57	16 9	1 3	11 21	1 57	23 25	0 23	4 1	1 23	25 31	5 44	10 38	10 20	2 48	17 5	3 48			
F 6	23 21	27 46	4 52	17 20	4 24	20 5	1 57	24 24	0 57	16 7	1 2	11 19	1 57	23 25	0 23	4 1	1 23	25 31	5 44	10 42	10 21	2 51	17 6	3 49			
S 7	23 24	27 56	4 26	17 22	4 22	19 46	1 54	24 23	0 58	16 6	1 2	11 18	1 56	23 24	0 23	4 0	1 23	25 30	5 44	10 46	10 22	2 55	17 6	3 49			
S 8	23 26	26 28	3 44	17 26	4 19	19 26	1 51	24 21	0 58	16 5	1 2	11 16	1 56	23 24	0 23	4 0	1 23	25 30	5 44	10 49	10 23	2 58	17 7	3 49			
M 9	23 28	23 25	2 50	17 31	4 16	19 7	1 48	24 20	0 58	16 4	1 2	11 14	1 56	23 24	0 23	4 0	1 23	25 30	5 44	10 52	10 24	3 1	17 8	3 49			
T 10	23 29	18 59	1 44	17 39	4 11	18 46	1 44	24 18	0 58	16 3	1 1	11 13	1 56	23 23	0 23	4 0	1 23	25 29	5 44	10 53	10 26	3 5	17 9	3 49			
W11	23 30	13 29	0 32	17 48	4 5	18 26	1 41	24 16	0 59	16 2	1 1	11 11	1 56	23 23	0 23	4 0	1 23	25 29	5 44	10 54	10 27	3 8	17 9	3 49			
T 12	23 31	7 16	0n43	17 58	3 58	18 5	1 37	24 14	0 59	16 1	1 1	11 9	1 56	23 23	0 23	3 59	1 23	25 29	5 44	10 54	10 28	3 12	17 10	3 50			
F 13	23 31	0 40	1 55	18 11	3 51	17 44	1 33	24 12	0 59	16 0	1 1	11 8	1 56	23 23	0 23	3 59	1 23	25 28	5 44	10 53	10 29	3 15	17 10	3 50			
S 14	23 31	5n58	3 1	18 24	3 42	17 23	1 29	24 9	0 59	15 59	1 1	11 6	1 56	23 22	0 23	3 59	1 23	25 28	5 44	10 53	10 30	3 18	17 11	3 50			
S 15	23 30	12 19	3 56	18 39	3 33	17 1	1 25	24 7	1 0	15 58	1 0	11 4	1 55	23 22	0 23	3 58	1 23	25 28	5 44	10 54	10 31	3 22	17 12	3 50			
M16	23 29	18 2	4 36	18 54	3 24	16 39	1 21	24 4	1 0	15 58	1 0	11 2	1 55	23 22	0 23	3 58	1 22	25 27	5 44	10 55	10 32	3 25	17 12	3 51			
T 17	23 27	22 44	4 59	19 11	3 13	16 17	1 16	24 1	1 0	15 57	1 0	11 0	1 55	23 21	0 23	3 58	1 22	25 27	5 44	10 58	10 34	3 28	17 13	3 51			
W18	23 25	26 6	5 5	19 29	3 3	15 54	1 11	23 57	1 0	15 56	1 0	10 58	1 55	23 21	0 23	3 58	1 22	25 26	5 44	11 0	10 35	3 32	17 14	3 51			
T 19	23 23	27 51	4 52	19 47	2 51	15 32	1 6	23 54	1 1	15 56	0 59	10 57	1 55	23 21	0 23	3 57	1 22	25 26	5 44	11 4	10 36	3 35	17 14	3 51			
F 20	23 20	27 52	4 23	20 5	2 39	15 9	1 1	23 50	1 1	15 55	0 59	10 55	1 55	23 20	0 23	3 57	1 22	25 26	5 44	11 7	10 37	3 38	17 15	3 51			
S 21	23 17	26 16	3 39	20 24	2 27	14 46	0 56	23 47	1 1	15 55	0 59	10 53	1 55	23 20	0 23	3 57	1 22	25 25	5 44	11 10	10 38	3 42	17 15	3 52			
S 22	23 14	23 17	2 46	20 43	2 15	14 22	0 51	23 43	1 1	15 54	0 59	10 51	1 55	23 20	0 23	3 56	1 22	25 25	5 44	11 12	10 39	3 45	17 16	3 52			
M23	23 10	19 13	1 45	21 2	2 2	13 59	0 45	23 38	1 2	15 54	0 58	10 49	1 54	23 19	0 23	3 56	1 22	25 25	5 44	11 13	10 40	3 48	17 16	3 52			
T 24	23 5	14 24	0 40	21 21	1 49	13 35	0 40	23 34	1 2	15 54	0 58	10 47	1 54	23 19	0 23	3 55	1 22	25 24	5 44	11 14	10 42	3 52	17 17	3 52			
W25	23 1	9 7	0s26	21 40	1 36	13 12	0 34	23 29	1 2	15 53	0 58	10 45	1 54	23 19	0 23	3 55	1 22	25 24	5 44	11 14	10 43	3 55	17 17	3 53			
T 26	22 56	3 36	1 29	21 58	1 23	12 48	0 28	23 25	1 2	15 53	0 58	10 43	1 54	23 18	0 23	3 55	1 22	25 24	5 44	11 14	10 44	3 59	17 18	3 53			
F 27	22 50	2s 0	2 28	22 15	1 10	12 24	0 21	23 20	1 3	15 53	0 57	10 40	1 54	23 18	0 23	3 54	1 22	25 23	5 44	11 13	10 45	4 2	17 18	3 53			
S 28	22 44	7 30	3 21	22 31	0 57	12 0	0 15	23 15	1 3	15 53	0 57	10 38	1 54	23 18	0 23	3 54	1 22	25 23	5 44	11 13	10 46	4 5	17 19	3 53			
S 29	22 38	12 47	4 5	22 46	0 44	11 36	0 8	23 10	1 3	15 53	0 57	10 36	1 54	23 17	0 23	3 53	1 22	25 22	5 44	11 13	10 47	4 9	17 19	3 53			
M30	22n31	17s38	4s39	23n 0	0s31	11n12	0n 1	23n 4	1n 3	15s52	0n57	10n34	1n54	23n17	0n23	3n53	1n22	25n22	5n44	11s14	10s48	4s12	17n20	3s54			

ASTRODIENST EPHEMERIS for the year 1449

geocentric

JULY 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 10 47	17°14'02	17°11'20	19°42	17°45	20°35	16°R20	7°11'31	12°34'45	23°11'26	1°15'58	0°R43	1°11'55	4°11'19	4°11'54	T 1
W 2	19 14 44	18°11'16	29°51	3°32	2°34	21°14	16°11'19	7°37	12°49	23°27	1°59	0°11'38	1°52	4°26	4°58	W 2
T 3	19 18 40	19° 8'29	12°14'43	5°25	3°22	21°52	16°19	7°43	12°53	23°28	2° 1	0°32	1°48	4°32	5° 2	T 3
F 4	19 22 37	20° 5'43	25°55	7°21	4° 9	22°31	16°19	7°49	12°56	23°29	2° 3	0°25	1°45	4°39	5° 6	F 4
S 5	19 26 33	21° 2'58	9°32'27	9°19	4°55	23°10	16°D19	7°55	13° 0	23°30	2° 4	0°19	1°42	4°46	5°10	S 5
S 6	19 30 30	22° 0'13	23°18	11°19	5°40	23°48	16°19	8° 1	13° 4	23°31	2° 6	0°14	1°39	4°52	5°14	S 6
M 7	19 34 27	22°57'29	7°11'24	13°21	6°25	24°27	16°19	8° 7	13° 7	23°33	2° 8	0°10	1°36	4°59	5°17	M 7
T 8	19 38 23	23°54'45	21°40	15°25	7° 8	25° 5	16°20	8°13	13°11	23°34	2°10	0° 8	1°33	5° 6	5°21	T 8
W 9	19 42 20	24°52'02	6°11'2	17°29	7°51	25°44	16°20	8°19	13°14	23°35	2°11	0°D 8	1°29	5°12	5°25	W 9
T 10	19 46 16	25°49'20	20°25	19°35	8°33	26°22	16°21	8°25	13°18	23°37	2°13	0° 9	1°26	5°19	5°28	T 10
F 11	19 50 13	26°46'39	4°11'46	21°41	9°13	27° 1	16°22	8°31	13°22	23°38	2°15	0°10	1°23	5°26	5°32	F 11
S 12	19 54 9	27°43'59	19° 2	23°47	9°53	27°40	16°23	8°37	13°25	23°40	2°17	0°12	1°20	5°32	5°36	S 12
S 13	19 58 6	28°41'21	3°11	25°54	10°31	28°18	16°25	8°43	13°29	23°41	2°18	0°R12	1°17	5°39	5°39	S 13
M14	20 2 2	29°38'43	17°10	28° 0	11° 9	28°56	16°26	8°50	13°32	23°42	2°20	0°11	1°14	5°46	5°43	M14
T 15	20 5 59	0°13'36'07	0°11'59	0°11	6	29°35	16°28	8°56	13°36	23°44	2°22	0° 8	1°10	5°52	5°46	T 15
W16	20 9 56	1°33'32	14°36	2°10	12°20	0°11'13	16°30	9° 3	13°39	23°45	2°24	0° 5	1° 7	5°59	5°49	W16
T 17	20 13 52	2°30'58	28° 1	4°14	12°53	0°52	16°32	9° 9	13°43	23°47	2°25	0° 1	1° 4	6° 6	5°53	T 17
F 18	20 17 49	3°28'25	11°11'21	6°17	13°26	1°30	16°34	9°16	13°46	23°48	2°27	29°11'56	1° 1	6°12	5°56	F 18
S 19	20 21 45	4°25'53	24° 8	8°19	13°57	2° 9	16°37	9°22	13°50	23°50	2°29	29°53	0°58	6°19	5°59	S 19
S 20	20 25 42	5°23'22	6°11'50	10°20	14°26	2°47	16°39	9°29	13°53	23°52	2°31	29°50	0°54	6°26	6° 2	S 20
M21	20 29 38	6°20'53	19°18	12°19	14°54	3°26	16°42	9°36	13°57	23°53	2°32	29°48	0°51	6°32	6° 5	M21
T 22	20 33 35	7°18'24	1°11'33	14°16	15°21	4° 4	16°45	9°42	14° 0	23°55	2°34	29°D48	0°48	6°39	6° 8	T 22
W23	20 37 32	8°15'56	13°37	16°13	15°46	4°42	16°48	9°49	14° 3	23°57	2°36	29°49	0°45	6°46	6°11	W23
T 24	20 41 28	9°13'29	25°32	18° 8	16° 9	5°21	16°51	9°56	14° 7	23°58	2°38	29°50	0°42	6°52	6°14	T 24
F 25	20 45 25	10°11'03	7°11'22	20° 1	16°31	5°59	16°55	10° 3	14°10	24° 0	2°40	29°52	0°39	6°59	6°17	F 25
S 26	20 49 21	11° 8'38	19°11	21°53	16°50	6°37	16°59	10° 9	14°14	24° 2	2°41	29°53	0°35	7° 6	6°20	S 26
S 27	20 53 18	12° 6'14	1°11'4	23°44	17° 8	7°16	17° 2	10°16	14°17	24° 3	2°43	29°54	0°32	7°12	6°23	S 27
M28	20 57 14	13° 3'51	13° 5	25°33	17°24	7°54	17° 6	10°23	14°20	24° 5	2°45	29°R54	0°29	7°19	6°26	M28
T 29	21 1 11	14° 1'29	25°19	27°20	17°38	8°32	17°11	10°30	14°24	24° 7	2°46	29°54	0°26	7°26	6°28	T 29
W30	21 5 7	14°59'08	7°11'50	29° 6	17°50	9°11	17°15	10°37	14°27	24° 9	2°48	29°53	0°23	7°32	6°31	W30
T 31	21 9 4	15°15'49	20°11'42	0°11'51	18°11'0	9°11'49	17°11'19	10°11'44	14°27'30	24°11'11	2°11'50	29°11'51	0°11'20	7°11'39	6°11'33	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22n24	21s52	5s 1	23n12	0s18	10n48	0s 5	22n59	1n 3	15s53	0n56	10n32	1n54	23n17	0n23	3n52
W 2	22 16	25 13	5 9	23 22	0 6	10 24	0 13	22 53	1 4	15 53	0 56	10 30	1 54	23 16	0 23	3 52
T 3	22 8	27 23	5 3	23 30	0n 6	10 0	0 20	22 47	1 4	15 53	0 56	10 27	1 54	23 16	0 23	3 51
F 4	22 0	28 6	4 40	23 36	0 17	9 35	0 28	22 41	1 4	15 53	0 56	10 25	1 53	23 16	0 23	3 51
S 5	21 52	27 11	4 1	23 39	0 28	9 11	0 35	22 34	1 4	15 53	0 55	10 23	1 53	23 15	0 23	3 50
S 6	21 43	24 34	3 7	23 40	0 39	8 47	0 43	22 28	1 4	15 53	0 55	10 21	1 53	23 15	0 23	3 50
M 7	21 33	20 25	2 1	23 39	0 48	8 23	0 51	22 21	1 5	15 54	0 55	10 18	1 53	23 15	0 23	3 49
T 8	21 23	15 3	0 46	23 34	0 57	7 59	1 0	22 15	1 5	15 54	0 55	10 16	1 53	23 14	0 23	3 49
W 9	21 13	8 50	0n32	23 27	1 6	7 36	1 8	22 8	1 5	15 54	0 54	10 13	1 53	23 14	0 23	3 48
T 10	21 3	2 9	1 49	23 17	1 13	7 12	1 17	22 1	1 5	15 55	0 54	10 11	1 53	23 14	0 23	3 48
F 11	20 52	4n37	2 58	23 5	1 20	6 49	1 26	21 53	1 5	15 56	0 54	10 9	1 53	23 13	0 23	3 47
S 12	20 41	11 7	3 56	22 50	1 26	6 25	1 35	21 46	1 6	15 56	0 53	10 6	1 53	23 13	0 23	3 46
S 13	20 29	16 58	4 39	22 32	1 31	6 2	1 44	21 38	1 6	15 57	0 53	10 4	1 53	23 13	0 23	3 46
M14	20 17	21 53	5 5	22 11	1 36	5 39	1 54	21 30	1 6	15 57	0 53	10 1	1 53	23 12	0 23	3 45
T 15	20 5	25 31	5 13	21 49	1 40	5 16	2 4	21 23	1 6	15 58	0 53	9 59	1 53	23 12	0 23	3 45
W16	19 52	27 38	5 3	21 24	1 45	4 54	2 13	21 15	1 6	15 59	0 52	9 56	1 53	23 11	0 23	3 44
T 17	19 40	28 6	4 37	20 57	1 45	4 32	2 24	21 6	1 6	16 0	0 52	9 54	1 53	23 11	0 23	3 43
F 18	19 26	26 57	3 56	20 28	1 46	4 10	2 34	20 58	1 7	16 1	0 52	9 51	1 52	23 11	0 23	3 43
S 19	19 13	24 22	3 4	19 57	1 47	3 48	2 44	20 50	1 7	16 2	0 52	9 49	1 52	23 10	0 23	3 42
S 20	18 59	20 36	2 3	19 25	1 47	3 27	2 55	20 41	1 7	16 3	0 51	9 46	1 52	23 10	0 23	3 41
M21	18 45	15 59	0 58	18 51	1 46	3 6	3 6	20 32	1 7	16 4	0 51	9 44	1 52	23 10	0 23	3 41
T 22	18 30	10 48	0s10	18 16	1 45	2 46	3 17	20 23	1 7	16 5	0 51	9 41	1 52	23 9	0 23	3 40
W23	18 15	5 18	1 15	17 40	1 43	2 26	3 28	20 14	1 7	16 6	0 51	9 39	1 52	23 9	0 23	3 39
T 24	18 0	0s19	2 17	17 2	1 41	2 7	3 39	20 5	1 7	16 7	0 51	9 36	1 52	23 9	0 23	3 39
F 25	17 45	5 53	3 13	16 24	1 38	1 48	3 51	19 55	1 8	16 8	0 50	9 33	1 52	23 8	0 23	3 38
S 26	17 29	11 14	4 0	15 45	1 34	1 29	4 2	19 46	1 8	16 9	0 50	9 31	1 52	23 8	0 23	3 37
S 27	17 13	16 12	4 37	15 5	1 31	1 12	4 14	19 36	1 8	16 11	0 50	9 28	1 52	23 8	0 23	3 37
M28	16 57	20 37	5 3	14 24	1 26	0 54	4 26	19 27	1 8	16 12	0 50	9 25	1 52	23 7	0 23	3 36
T 29	16 40	24 15	5 15	13 43	1 22	0 38	4 38	19 17	1 8	16 14	0 49	9 23	1 52	23 7	0 23	3 35
W30	16 23	26 50	5 13	13 1	1 16	0 22	4 50	19 7	1 8	16 15	0 49	9 20	1 52	23 7	0 23	3 34
T 31	16n 6	28s 6	4s56	12n19	1n11	0n 7	5s 2	18n57	1n 8	16s17	0n49	9n17	1n52	23n 6	0n23	3n34

Julian Day Number = 2250486.5, Delta T = 06m30s

Ecliptic obliquity = 23°30'46, Nutation = 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°03'37, Lahiri = 16°10'37 Julian Calendar 1 July 1449 == Greg. Calendar 10 July 1449

ASTRODIENST EPHEMERIS for the year 1449
geocentric

AUGUST 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	21 13 1	16♂54'30	3♂58	2♂34	18♂8	10♂27	17♂24	10♂51	14♂33	24♂12	2♂52	29♂R50	0♂16	7♂46	6♂36	F 1
S 2	21 16 57	17°52'13	17°38	4°15	18°14	11° 5	17°29	10°58	14°37	24°14	2°53	29♂R48	0°13	7°52	6°38	S 2
S 3	21 20 54	18°49'56	1♂42	5°56	18°17	11°44	17°34	11° 5	14°40	24°16	2°55	29°47	0°10	7°59	6°41	S 3
M 4	21 24 50	19°47'41	16° 6	7°34	18°R18	12°22	17°39	11°13	14°43	24°18	2°57	29°46	0° 7	8° 6	6°43	M 4
T 5	21 28 47	20°45'28	0♂45	9°12	18°17	13° 0	17°44	11°20	14°46	24°20	2°58	29°D46	0° 4	8°12	6°45	T 5
W 6	21 32 43	21°43'16	15°32	10°48	18°13	13°38	17°50	11°27	14°49	24°22	3° 0	29°46	0° 0	8°19	6°47	W 6
T 7	21 36 40	22°41'05	0♂21	12°23	18° 7	14°17	17°55	11°34	14°52	24°24	3° 2	29°47	29♂R57	8°26	6°50	T 7
F 8	21 40 36	23°38'56	15° 4	13°56	17°59	14°55	18° 1	11°41	14°55	24°26	3° 4	29°47	29°54	8°33	6°52	F 8
S 9	21 44 33	24°36'49	29°36	15°28	17°48	15°33	18° 7	11°49	14°58	24°28	3° 5	29°48	29°51	8°39	6°54	S 9
S 10	21 48 30	25°34'44	13♂53	16°58	17°35	16°11	18°13	11°56	15° 1	24°30	3° 7	29°48	29°48	8°46	6°55	S 10
M 11	21 52 26	26°32'41	27°52	18°27	17°20	16°49	18°19	12° 3	15° 4	24°32	3° 8	29°R48	29°45	8°53	6°57	M 11
T 12	21 56 23	27°30'40	11♂33	19°55	17° 2	17°28	18°25	12°11	15° 7	24°34	3°10	29°48	29°41	8°59	6°59	T 12
W 13	22 0 19	28°28'41	24°55	21°21	16°42	18° 6	18°32	12°18	15°10	24°36	3°12	29°48	29°38	9° 6	7° 1	W 13
T 14	22 4 16	29°26'43	8♂ 1	22°46	16°20	18°44	18°38	12°25	15°13	24°38	3°13	29°D48	29°35	9°13	7° 2	T 14
F 15	22 8 12	0♂24'48	20°50	24°10	15°56	19°22	18°45	12°33	15°16	24°40	3°15	29°48	29°32	9°19	7° 4	F 15
S 16	22 12 9	1°22'54	3♂26	25°32	15°29	20° 0	18°52	12°40	15°18	24°42	3°17	29°48	29°29	9°26	7° 6	S 16
S 17	22 16 5	2°21'02	15°50	26°52	15° 1	20°38	18°59	12°47	15°21	24°44	3°18	29°48	29°26	9°33	7° 7	S 17
M 18	22 20 2	3°19'12	28° 3	28°11	14°31	21°17	19° 6	12°55	15°24	24°46	3°20	29°R48	29°22	9°39	7° 8	M 18
T 19	22 23 59	4°17'24	10♂ 7	29°29	14° 0	21°55	19°14	13° 2	15°27	24°48	3°21	29°48	29°19	9°46	7°10	T 19
W 20	22 27 55	5°15'37	22° 3	0♂44	13°27	22°33	19°21	13°10	15°29	24°51	3°23	29°48	29°16	9°53	7°11	W 20
T 21	22 31 52	6°13'52	3♂55	1°58	12°53	23°11	19°29	13°17	15°32	24°53	3°24	29°47	29°13	9°59	7°12	T 21
F 22	22 35 48	7°12'09	15°44	3°10	12°18	23°49	19°36	13°25	15°35	24°55	3°26	29°46	29°10	10° 6	7°13	F 22
S 23	22 39 45	8°10'27	27°33	4°21	11°42	24°27	19°44	13°32	15°37	24°57	3°27	29°45	29° 6	10°13	7°14	S 23
S 24	22 43 41	9° 8'47	9♂26	5°29	11° 5	25° 5	19°52	13°40	15°40	24°59	3°29	29°44	29° 3	10°19	7°15	S 24
M 25	22 47 38	10° 7'09	21°26	6°35	10°28	25°43	20° 0	13°47	15°42	25° 1	3°30	29°43	29° 0	10°26	7°16	M 25
T 26	22 51 34	11° 5'32	3♂38	7°39	9°51	26°22	20° 9	13°55	15°45	25° 3	3°32	29°42	28°57	10°33	7°17	T 26
W 27	22 55 31	12° 3'57	16° 5	8°41	9°14	27° 0	20°17	14° 2	15°47	25° 6	3°33	29°D42	28°54	10°39	7°17	W 27
T 28	22 59 27	13° 2'24	28°53	9°40	8°38	27°38	20°25	14°10	15°49	25° 8	3°35	29°43	28°51	10°46	7°18	T 28
F 29	23 3 24	14° 0'52	12♂ 3	10°37	8° 2	28°16	20°34	14°17	15°52	25°10	3°36	29°44	28°47	10°53	7°19	F 29
S 30	23 7 21	14°59'22	25°40	11°31	7°27	28°54	20°43	14°25	15°54	25°12	3°38	29°45	28°44	10°59	7°19	S 30
S 31	23 11 17	15♂57'54	9♂44	12♂21	6♂52	29♂32	20♂52	14♂32	15♂56	25♂14	3♂39	29♂46	28♂41	11♂ 6	7♂20	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	15n49	27s49	4s22	11n36	1n 5	0s 7	5s14	18n46	1n 8	16s18	0n49	9n15	1n52	23n 6	0n23	3n33
S 2	15 31	25 52	3 33	10 54	0 59	0 20	5 27	18 36	1 9	16 20	0 48	9 12	1 52	23 6	0 23	3 32
S 3	15 14	22 16	2 29	10 11	0 53	0 33	5 39	18 25	1 9	16 21	0 48	9 9	1 52	23 5	0 23	3 31
M 4	14 55	17 15	1 15	9 28	0 46	0 45	5 51	18 15	1 9	16 23	0 48	9 6	1 52	23 5	0 23	3 31
T 5	14 37	11 10	0n 5	8 45	0 39	0 55	6 3	18 4	1 9	16 25	0 48	9 4	1 52	23 5	0 23	3 30
W 6	14 19	4 24	1 26	8 2	0 32	1 5	6 15	17 53	1 9	16 26	0 47	9 1	1 52	23 4	0 23	3 29
T 7	14 0	2n37	2 42	7 19	0 25	1 13	6 27	17 42	1 9	16 28	0 47	8 58	1 52	23 4	0 23	3 28
F 8	13 41	9 25	3 46	6 36	0 17	1 21	6 39	17 31	1 9	16 30	0 47	8 55	1 52	23 4	0 23	3 27
S 9	13 21	15 38	4 34	5 53	0 9	1 27	6 50	17 20	1 9	16 32	0 47	8 53	1 52	23 3	0 23	3 27
S 10	13 2	20 54	5 5	5 11	0 1	1 33	7 1	17 8	1 9	16 34	0 47	8 50	1 52	23 3	0 23	3 26
M 11	12 42	24 53	5 17	4 29	0s 7	1 37	7 12	16 57	1 10	16 36	0 46	8 47	1 52	23 3	0 23	3 25
T 12	12 22	27 22	5 11	3 47	0 15	1 40	7 23	16 45	1 10	16 38	0 46	8 44	1 52	23 2	0 23	3 24
W 13	12 2	28 12	4 47	3 5	0 23	1 41	7 33	16 34	1 10	16 40	0 46	8 41	1 52	23 2	0 23	3 23
T 14	11 42	27 25	4 10	2 23	0 32	1 42	7 42	16 22	1 10	16 42	0 46	8 38	1 52	23 2	0 23	3 23
F 15	11 22	25 11	3 20	1 43	0 40	1 41	7 51	16 10	1 10	16 44	0 45	8 36	1 52	23 2	0 24	3 22
S 16	11 1	21 44	2 21	1 2	0 49	1 38	8 0	15 58	1 10	16 46	0 45	8 33	1 52	23 1	0 24	3 21
S 17	10 40	17 22	1 17	0 22	0 58	1 35	8 8	15 46	1 10	16 48	0 45	8 30	1 52	23 1	0 24	3 20
M 18	10 19	12 21	0 10	0s17	1 6	1 30	8 15	15 34	1 10	16 50	0 45	8 27	1 52	23 1	0 24	3 19
T 19	9 58	6 55	0s57	0 56	1 15	1 24	8 22	15 21	1 10	16 52	0 45	8 24	1 52	23 0	0 24	3 18
W 20	9 37	1 19	2 0	1 34	1 24	1 17	8 27	15 9	1 10	16 54	0 44	8 21	1 52	23 0	0 24	3 17
T 21	9 15	4s17	2 58	2 12	1 33	1 9	8 32	14 56	1 10	16 57	0 44	8 19	1 52	23 0	0 24	3 17
F 22	8 54	9 43	3 48	2 49	1 41	0 59	8 36	14 44	1 10	16 59	0 44	8 16	1 52	23 0	0 24	3 16
S 23	8 32	14 48	4 28	3 25	1 50	0 49	8 39	14 31	1 10	17 1	0 44	8 13	1 52	22 59	0 24	3 15
S 24	8 10	19 22	4 57	4 0	1 59	0 37	8 42	14 18	1 11	17 4	0 44	8 10	1 52	22 59	0 24	3 14
M 25	7 48	23 13	5 13	4 34	2 7	0 25	8 43	14 5	1 11	17 6	0 43	8 7	1 52	22 59	0 24	3 13
T 26	7 26	26 7	5 16	5 7	2 16	0 11	8 43	13 53	1 11	17 8	0 43	8 4	1 52	22 59	0 24	3 12
W 27	7 3	27 49	5 4	5 39	2 24	0n 3	8 43	13 39	1 11	17 11	0 43	8 1	1 52	22 58	0 24	3 11
T 28	6 41	28 7	4 37	6 10	2 32	0 18	8 41	13 26	1 11	17 13	0 43	7 59	1 52	22 58	0 24	3 11
F 29	6 18	26 51	3 54	6 40	2 40	0 33	8 39	13 13	1 11	17 16	0 43	7 56	1 52	22 58	0 24	3 10
S 30	5 56	23 59	2 58	7 8	2 48	0 49	8 35	13 0	1 11	17 18	0 42	7 53	1 52	22 58	0 24	3 9
S 31	5n33	19s36	1s49	7s35	2s55	1n 6	8s31	12n47	1n11	17s21	0n42	7n50	1n52	22n57	0n24	3n 8

Julian Day Number = 2250517.5, Delta T = 06m30s

Ecliptic obliquity = 23°30'47", Nutation = 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°03'41", Lahiri = 16°10'41" Julian Calendar 1 Aug. 1449 == Greg. Calendar 10 Aug. 1449

ASTRODIENST EPHEMERIS for the year 1449

geocentric

SEPTEMBER 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	23 15 14	16 ¹¹ 56'27	24 ¹¹ 14	13 ¹¹ 9	6°R20	0 ¹¹ 10	21 ¹¹ 0	14 ¹¹ 40	15 ¹¹ 58	25 ¹¹ 17	3 ¹¹ 40	29°R47	28 ¹¹ 38	11 ¹¹ 13	7 ¹¹ 20	M 1
T 2	23 19 10	17°55'02	9 ¹¹ 4	13°53	5 ¹¹ 48	0°48	21°10	14°47	16°0	25°19	3°42	29 ¹¹ 46	28°35	11°19	7°20	T 2
W 3	23 23 7	18°53'39	24°9	14°33	5°19	1°26	21°19	14°54	16°3	25°21	3°43	29°45	28°32	11°26	7°21	W 3
T 4	23 27 3	19°52'18	9 ¹¹ Y19	15°9	4°51	2°4	21°28	15°2	16°5	25°23	3°44	29°43	28°28	11°33	7°21	T 4
F 5	23 31 0	20°50'59	24°24	15°41	4°25	2°42	21°37	15°9	16°7	25°26	3°46	29°41	28°25	11°40	7°R21	F 5
S 6	23 34 56	21°49'42	9 ¹¹ 817	16°8	4°1	3°20	21°47	15°17	16°9	25°28	3°47	29°38	28°22	11°46	7°21	S 6
S 7	23 38 53	22°48'28	23°49	16°29	3°39	3°58	21°57	15°24	16°11	25°30	3°48	29°35	28°19	11°53	7°21	S 7
M 8	23 42 50	23°47'16	7 ¹¹ II58	16°46	3°20	4°37	22°6	15°32	16°12	25°32	3°49	29°34	28°16	12°0	7°21	M 8
T 9	23 46 46	24°46'06	21°40	16°56	3°3	5°15	22°16	15°39	16°14	25°34	3°51	29°D33	28°12	12°6	7°20	T 9
W10	23 50 43	25°44'59	4 ¹¹ 858	17°R 0	2°48	5°53	22°26	15°47	16°16	25°37	3°52	29°33	28°9	12°13	7°20	W10
T 11	23 54 39	26°43'54	17°54	16°57	2°36	6°31	22°36	15°54	16°18	25°39	3°53	29°34	28°6	12°20	7°20	T 11
F 12	23 58 36	27°42'51	0 ¹¹ 831	16°47	2°26	7°9	22°46	16°1	16°20	25°41	3°54	29°36	28°3	12°26	7°19	F 12
S 13	0 2 32	28°41'50	12°52	16°30	2°19	7°47	22°56	16°9	16°21	25°43	3°55	29°37	28°0	12°33	7°19	S 13
S 14	0 6 29	29°40'52	25°2	16°5	2°14	8°25	23°7	16°16	16°23	25°46	3°56	29°R38	27°57	12°40	7°18	S 14
M15	0 10 25	0 ¹¹ 39'56	7 ¹¹ 3	15°33	2°11	9°3	23°17	16°24	16°24	25°48	3°57	29°38	27°53	12°46	7°17	M15
T 16	0 14 22	1°39'02	18°58	14°53	2°D11	9°41	23°28	16°31	16°26	25°50	3°59	29°36	27°50	12°53	7°17	T 16
W17	0 18 19	2°38'10	0 ¹¹ 49	14°5	2°13	10°19	23°38	16°38	16°27	25°52	4°0	29°33	27°47	13°0	7°16	W17
T 18	0 22 15	3°37'20	12°38	13°11	2°18	10°57	23°49	16°45	16°29	25°55	4°1	29°28	27°44	13°6	7°15	T 18
F 19	0 26 12	4°36'33	24°28	12°11	2°25	11°35	24°0	16°53	16°30	25°57	4°2	29°22	27°41	13°13	7°14	F 19
S 20	0 30 8	5°35'47	6 ¹¹ 20	11°5	2°34	12°13	24°11	17°0	16°31	25°59	4°3	29°15	27°37	13°20	7°13	S 20
S 21	0 34 5	6°35'03	18°16	9°56	2°45	12°51	24°21	17°7	16°33	26°1	4°4	29°8	27°34	13°26	7°12	S 21
M22	0 38 1	7°34'22	0 ¹¹ 18	8°45	2°59	13°29	24°33	17°14	16°34	26°3	4°5	29°2	27°31	13°33	7°11	M22
T 23	0 41 58	8°33'42	12°31	7°34	3°14	14°7	24°44	17°22	16°35	26°6	4°5	28°58	27°28	13°40	7°9	T 23
W24	0 45 54	9°33'04	24°56	6°25	3°31	14°45	24°55	17°29	16°36	26°8	4°6	28°55	27°25	13°46	7°8	W24
T 25	0 49 51	10°32'27	7 ¹¹ 38	5°20	3°51	15°23	25°6	17°36	16°37	26°10	4°7	28°D53	27°22	13°53	7°7	T 25
F 26	0 53 48	11°31'53	20°41	4°21	4°12	16°1	25°17	17°43	16°38	26°12	4°8	28°54	27°18	14°0	7°5	F 26
S 27	0 57 44	12°31'20	4 ¹¹ 8	3°29	4°35	16°39	25°29	17°50	16°39	26°14	4°9	28°55	27°15	14°7	7°4	S 27
S 28	1 1 41	13°30'50	18°2	2°46	5°0	17°17	25°40	17°57	16°40	26°16	4°10	28°56	27°12	14°13	7°2	S 28
M29	1 5 37	14°30'20	2 ¹¹ 23	2°13	5°26	17°55	25°52	18°4	16°41	26°19	4°10	28°R56	27°9	14°20	7°1	M29
T 30	1 9 34	15 ¹¹ 29'53	17 ¹¹ 8	1 ¹¹ 50	5 ¹¹ 54	18 ¹¹ 33	26 ¹¹ 4	18 ¹¹ 11	16 ¹¹ 42	26 ¹¹ 21	4 ¹¹ 11	28 ¹¹ 55	27 ¹¹ 6	14 ¹¹ 27	6 ¹¹ 59	T 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	5n10	13s58	0s31	8s 1	3s 3	1n22	8s26	12n33	1n11	17s23	0n42	7n47	1n52	22n57	0n24	3n 7
T 2	4 47	7 24	0n51	8 24	3 10	1 39	8 20	12 20	1 11	17 26	0 42	7 44	1 52	22 57	0 24	3 6
W 3	4 24	0 20	2 11	8 46	3 16	1 56	8 14	12 6	1 11	17 28	0 42	7 41	1 53	22 57	0 24	3 5
T 4	4 1	6n47	3 21	9 5	3 22	2 13	8 6	11 52	1 11	17 31	0 41	7 39	1 53	22 56	0 24	3 4
F 5	3 38	13 28	4 17	9 23	3 28	2 30	7 58	11 39	1 11	17 34	0 41	7 36	1 53	22 56	0 24	3 4
S 6	3 15	19 17	4 55	9 38	3 33	2 46	7 50	11 25	1 11	17 36	0 41	7 33	1 53	22 56	0 24	3 3
S 7	2 52	23 50	5 13	9 50	3 37	3 2	7 40	11 11	1 11	17 39	0 41	7 30	1 53	22 56	0 24	3 2
M 8	2 28	26 49	5 11	10 0	3 41	3 18	7 31	10 57	1 11	17 42	0 41	7 27	1 53	22 56	0 24	3 1
T 9	2 5	28 6	4 52	10 6	3 43	3 34	7 21	10 43	1 11	17 44	0 41	7 24	1 53	22 55	0 24	3 0
W10	1 42	27 42	4 17	10 9	3 45	3 49	7 10	10 29	1 11	17 47	0 40	7 22	1 53	22 55	0 24	2 59
T 11	1 18	25 46	3 29	10 9	3 46	4 3	6 59	10 15	1 11	17 50	0 40	7 19	1 53	22 55	0 24	2 58
F 12	0 55	22 36	2 33	10 5	3 45	4 17	6 48	10 1	1 11	17 53	0 40	7 16	1 53	22 55	0 24	2 57
S 13	0 31	18 27	1 31	9 56	3 43	4 30	6 37	9 47	1 11	17 55	0 40	7 13	1 53	22 55	0 24	2 56
S 14	0 8	13 37	0 25	9 44	3 40	4 43	6 25	9 32	1 11	17 58	0 40	7 10	1 53	22 54	0 24	2 56
M15	0s16	8 20	0s40	9 26	3 35	4 55	6 13	9 18	1 11	18 1	0 40	7 8	1 53	22 54	0 24	2 55
T 16	0 40	2 48	1 44	9 5	3 28	5 6	6 1	9 4	1 11	18 4	0 39	7 5	1 54	22 54	0 24	2 54
W17	1 3	2s48	2 42	8 38	3 20	5 16	5 49	8 49	1 11	18 6	0 39	7 2	1 54	22 54	0 24	2 53
T 18	1 27	8 16	3 33	8 7	3 9	5 26	5 37	8 35	1 11	18 9	0 39	6 59	1 54	22 54	0 24	2 52
F 19	1 50	13 27	4 15	7 32	2 57	5 35	5 25	8 20	1 11	18 12	0 39	6 57	1 54	22 54	0 24	2 51
S 20	2 14	18 10	4 46	6 53	2 42	5 43	5 13	8 6	1 11	18 15	0 39	6 54	1 54	22 54	0 24	2 50
S 21	2 37	22 11	5 5	6 11	2 26	5 50	5 1	7 51	1 11	18 18	0 39	6 51	1 54	22 53	0 25	2 50
M22	3 1	25 19	5 10	5 27	2 9	5 57	4 49	7 36	1 11	18 21	0 38	6 48	1 54	22 53	0 25	2 49
T 23	3 24	27 21	5 1	4 42	1 50	6 3	4 37	7 22	1 11	18 23	0 38	6 46	1 54	22 53	0 25	2 48
W24	3 48	28 4	4 39	3 56	1 30	6 7	4 25	7 7	1 11	18 26	0 38	6 43	1 54	22 53	0 25	2 47
T 25	4 11	27 19	4 2	3 12	1 10	6 12	4 13	6 52	1 11	18 29	0 38	6 40	1 55	22 53	0 25	2 46
F 26	4 34	25 5	3 12	2 29	0 49	6 15	4 2	6 37	1 11	18 32	0 38	6 38	1 55	22 53	0 25	2 45
S 27	4 58	21 23	2 10	1 50	0 29	6 17	3 50	6 22	1 11	18 35	0 38	6 35	1 55	22 53	0 25	2 44
S 28	5 21	16 24	0 59	1 14	0 9	6 19	3 39	6 7	1 11	18 38	0 37	6 32	1 55	22 53	0 25	2 44
M29	5 44	10 22	0n19	0 44	0n10	6 20	3 27	5 53	1 11	18 41	0 37	6 30	1 55	22 53	0 25	2 43
T 30	6s 7	3s36	1n37	0s18	0n28	6n20	3s16	5n38	1n11	18s44	0n37	6n27	1n55	22n53	0n25	2n42

Julian Day Number = 2250548.5, Delta T = 06m30s

Ecliptic obliquity = 23°30'47, Nutation = 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°03'45, Lahiri = 16°10'46 Julian Calendar 1 Sept. 1449 == Greg. Calendar 10 Sept. 1449

ASTRODIENST EPHEMERIS for the year 1449

geocentric

NOVEMBER 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 15 44	17 ¹¹ 32'59	26 ⁸ 0	11 ¹¹ 7	0 ¹¹ 53	8 ¹¹ 50	2 ¹¹ 47	21 ¹¹ 29	16 ¹¹ R38	27 ¹¹ 21	4 ¹¹ R21	25 ¹¹ R57	25 ¹¹ 24	18 ¹¹ 1	5 ¹¹ R34	S 1
S 2	3 19 40	18 ¹¹ 33'33	10 ¹¹ 52	12 ¹¹ 43	1 ¹¹ 52	9 ¹¹ 28	3 ¹¹ 0	21 ¹¹ 34	16 ¹¹ 37	27 ¹¹ 23	4 ¹¹ 21	25 ¹¹ 35	25 ¹¹ 18	18 ¹¹ 7	5 ¹¹ 30	S 2
M 3	3 23 37	19 ¹¹ 34'08	25 ¹¹ 20	14 ¹¹ 19	2 ¹¹ 52	10 ¹¹ 6	3 ¹¹ 14	21 ¹¹ 39	16 ¹¹ 36	27 ¹¹ 25	4 ¹¹ 21	25 ¹¹ 35	25 ¹¹ 18	18 ¹¹ 14	5 ¹¹ 27	M 3
T 4	3 27 33	20 ¹¹ 34'45	9 ¹¹ 20	15 ¹¹ 54	3 ¹¹ 52	10 ¹¹ 44	3 ¹¹ 27	21 ¹¹ 44	16 ¹¹ 35	27 ¹¹ 26	4 ¹¹ 21	25 ¹¹ 28	25 ¹¹ 14	18 ¹¹ 21	5 ¹¹ 23	T 4
W 5	3 31 30	21 ¹¹ 35'24	22 ¹¹ 50	17 ¹¹ 30	4 ¹¹ 53	11 ¹¹ 22	3 ¹¹ 40	21 ¹¹ 49	16 ¹¹ 34	27 ¹¹ 28	4 ¹¹ 20	25 ¹¹ 23	25 ¹¹ 11	18 ¹¹ 28	5 ¹¹ 20	W 5
T 6	3 35 26	22 ¹¹ 36'04	5 ¹¹ 21	19 ¹¹ 5	5 ¹¹ 54	12 ¹¹ 0	3 ¹¹ 54	21 ¹¹ 54	16 ¹¹ 33	27 ¹¹ 29	4 ¹¹ 20	25 ¹¹ 21	25 ¹¹ 8	18 ¹¹ 34	5 ¹¹ 17	T 6
F 7	3 39 23	23 ¹¹ 36'46	18 ¹¹ 27	20 ¹¹ 40	6 ¹¹ 55	12 ¹¹ 38	4 ¹¹ 7	21 ¹¹ 59	16 ¹¹ 32	27 ¹¹ 30	4 ¹¹ 20	25 ¹¹ 20	25 ¹¹ 5	18 ¹¹ 41	5 ¹¹ 13	F 7
S 8	3 43 19	24 ¹¹ 37'30	0 ¹¹ 44	22 ¹¹ 15	7 ¹¹ 57	13 ¹¹ 16	4 ¹¹ 21	22 ¹¹ 3	16 ¹¹ 30	27 ¹¹ 32	4 ¹¹ 20	25 ¹¹ 20	25 ¹¹ 2	18 ¹¹ 48	5 ¹¹ 10	S 8
S 9	3 47 16	25 ¹¹ 38'15	12 ¹¹ 46	23 ¹¹ 50	8 ¹¹ 59	13 ¹¹ 54	4 ¹¹ 34	22 ¹¹ 8	16 ¹¹ 29	27 ¹¹ 33	4 ¹¹ 19	25 ¹¹ 19	24 ¹¹ 59	18 ¹¹ 54	5 ¹¹ 6	S 9
M10	3 51 13	26 ¹¹ 39'02	24 ¹¹ 38	25 ¹¹ 25	10 ¹¹ 2	14 ¹¹ 32	4 ¹¹ 48	22 ¹¹ 13	16 ¹¹ 28	27 ¹¹ 35	4 ¹¹ 19	25 ¹¹ 17	24 ¹¹ 55	19 ¹¹ 1	5 ¹¹ 2	M10
T 11	3 55 9	27 ¹¹ 39'50	6 ¹¹ 27	27 ¹¹ 0	11 ¹¹ 5	15 ¹¹ 10	5 ¹¹ 1	22 ¹¹ 17	16 ¹¹ 26	27 ¹¹ 36	4 ¹¹ 18	25 ¹¹ 12	24 ¹¹ 52	19 ¹¹ 8	4 ¹¹ 59	T 11
W12	3 59 6	28 ¹¹ 40'40	18 ¹¹ 16	28 ¹¹ 34	12 ¹¹ 8	15 ¹¹ 48	5 ¹¹ 15	22 ¹¹ 21	16 ¹¹ 25	27 ¹¹ 37	4 ¹¹ 18	25 ¹¹ 4	24 ¹¹ 49	19 ¹¹ 14	4 ¹¹ 55	W12
T 13	4 3 2	29 ¹¹ 41'31	0 ¹¹ 8	0 ¹¹ 8	13 ¹¹ 12	16 ¹¹ 26	5 ¹¹ 28	22 ¹¹ 26	16 ¹¹ 23	27 ¹¹ 38	4 ¹¹ 18	24 ¹¹ 53	24 ¹¹ 46	19 ¹¹ 21	4 ¹¹ 52	T 13
F 14	4 6 59	0 ¹¹ 42'24	12 ¹¹ 7	1 ¹¹ 43	14 ¹¹ 16	17 ¹¹ 4	5 ¹¹ 42	22 ¹¹ 30	16 ¹¹ 22	27 ¹¹ 40	4 ¹¹ 17	24 ¹¹ 40	24 ¹¹ 43	19 ¹¹ 28	4 ¹¹ 48	F 14
S 15	4 10 55	1 ¹¹ 43'18	24 ¹¹ 13	3 ¹¹ 17	15 ¹¹ 20	17 ¹¹ 42	5 ¹¹ 55	22 ¹¹ 34	16 ¹¹ 20	27 ¹¹ 41	4 ¹¹ 17	24 ¹¹ 26	24 ¹¹ 40	19 ¹¹ 34	4 ¹¹ 44	S 15
S 16	4 14 52	2 ¹¹ 44'13	6 ¹¹ 29	4 ¹¹ 51	16 ¹¹ 25	18 ¹¹ 20	6 ¹¹ 9	22 ¹¹ 38	16 ¹¹ 18	27 ¹¹ 42	4 ¹¹ 16	24 ¹¹ 11	24 ¹¹ 36	19 ¹¹ 41	4 ¹¹ 41	S 16
M17	4 18 48	3 ¹¹ 45'09	18 ¹¹ 54	6 ¹¹ 25	17 ¹¹ 30	18 ¹¹ 58	6 ¹¹ 22	22 ¹¹ 42	16 ¹¹ 17	27 ¹¹ 43	4 ¹¹ 16	23 ¹¹ 57	24 ¹¹ 33	19 ¹¹ 48	4 ¹¹ 37	M17
T 18	4 22 45	4 ¹¹ 46'06	1 ¹¹ 29	7 ¹¹ 59	18 ¹¹ 35	19 ¹¹ 36	6 ¹¹ 36	22 ¹¹ 46	16 ¹¹ 15	27 ¹¹ 44	4 ¹¹ 15	23 ¹¹ 46	24 ¹¹ 30	19 ¹¹ 55	4 ¹¹ 34	T 18
W19	4 26 42	5 ¹¹ 47'04	14 ¹¹ 15	9 ¹¹ 33	19 ¹¹ 40	20 ¹¹ 14	6 ¹¹ 49	22 ¹¹ 50	16 ¹¹ 13	27 ¹¹ 46	4 ¹¹ 14	23 ¹¹ 37	24 ¹¹ 27	20 ¹¹ 1	4 ¹¹ 30	W19
T 20	4 30 38	6 ¹¹ 48'03	27 ¹¹ 11	11 ¹¹ 8	20 ¹¹ 46	20 ¹¹ 52	7 ¹¹ 3	22 ¹¹ 54	16 ¹¹ 11	27 ¹¹ 47	4 ¹¹ 14	23 ¹¹ 32	24 ¹¹ 24	20 ¹¹ 8	4 ¹¹ 26	T 20
F 21	4 34 35	7 ¹¹ 49'03	10 ¹¹ 19	12 ¹¹ 42	21 ¹¹ 52	21 ¹¹ 30	7 ¹¹ 17	22 ¹¹ 57	16 ¹¹ 10	27 ¹¹ 48	4 ¹¹ 13	23 ¹¹ 29	24 ¹¹ 20	20 ¹¹ 15	4 ¹¹ 23	F 21
S 22	4 38 31	8 ¹¹ 50'03	23 ¹¹ 41	14 ¹¹ 16	22 ¹¹ 59	22 ¹¹ 8	7 ¹¹ 30	23 ¹¹ 1	16 ¹¹ 8	27 ¹¹ 49	4 ¹¹ 13	23 ¹¹ D29	24 ¹¹ 17	20 ¹¹ 21	4 ¹¹ 19	S 22
S 23	4 42 28	9 ¹¹ 51'04	7 ¹¹ 18	15 ¹¹ 50	24 ¹¹ 5	22 ¹¹ 46	7 ¹¹ 44	23 ¹¹ 4	16 ¹¹ 6	27 ¹¹ 50	4 ¹¹ 12	23 ¹¹ R29	24 ¹¹ 14	20 ¹¹ 28	4 ¹¹ 15	S 23
M24	4 46 24	10 ¹¹ 52'06	21 ¹¹ 13	17 ¹¹ 24	25 ¹¹ 12	23 ¹¹ 24	7 ¹¹ 57	23 ¹¹ 7	16 ¹¹ 4	27 ¹¹ 51	4 ¹¹ 11	23 ¹¹ 29	24 ¹¹ 11	20 ¹¹ 35	4 ¹¹ 12	M24
T 25	4 50 21	11 ¹¹ 53'07	5 ¹¹ 26	18 ¹¹ 59	26 ¹¹ 19	24 ¹¹ 2	8 ¹¹ 11	23 ¹¹ 11	16 ¹¹ 2	27 ¹¹ 51	4 ¹¹ 10	23 ¹¹ 26	24 ¹¹ 8	20 ¹¹ 41	4 ¹¹ 8	T 25
W26	4 54 17	12 ¹¹ 54'10	19 ¹¹ 55	20 ¹¹ 33	27 ¹¹ 26	24 ¹¹ 40	8 ¹¹ 24	23 ¹¹ 14	16 ¹¹ 0	27 ¹¹ 52	4 ¹¹ 10	23 ¹¹ 22	24 ¹¹ 5	20 ¹¹ 48	4 ¹¹ 5	W26
T 27	4 58 14	13 ¹¹ 55'13	4 ¹¹ 37	22 ¹¹ 7	28 ¹¹ 33	25 ¹¹ 17	8 ¹¹ 38	23 ¹¹ 17	15 ¹¹ 58	27 ¹¹ 53	4 ¹¹ 9	23 ¹¹ 15	24 ¹¹ 1	20 ¹¹ 55	4 ¹¹ 1	T 27
F 28	5 2 11	14 ¹¹ 56'16	19 ¹¹ 25	23 ¹¹ 42	29 ¹¹ 41	25 ¹¹ 55	8 ¹¹ 51	23 ¹¹ 20	15 ¹¹ 56	27 ¹¹ 54	4 ¹¹ 8	23 ¹¹ 5	23 ¹¹ 58	21 ¹¹ 2	3 ¹¹ 58	F 28
S 29	5 6 7	15 ¹¹ 57'21	4 ¹¹ 13	25 ¹¹ 16	0 ¹¹ 49	26 ¹¹ 33	9 ¹¹ 5	23 ¹¹ 23	15 ¹¹ 54	27 ¹¹ 55	4 ¹¹ 7	22 ¹¹ 54	23 ¹¹ 55	21 ¹¹ 8	3 ¹¹ 54	S 29
S 30	5 10 4	16 ¹¹ 58'25	18 ¹¹ 51	26 ¹¹ 51	1 ¹¹ 57	27 ¹¹ 11	9 ¹¹ 19	23 ¹¹ 25	15 ¹¹ 51	27 ¹¹ 55	4 ¹¹ 6	22 ¹¹ 44	23 ¹¹ 52	21 ¹¹ 15	3 ¹¹ 50	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	17s 7	24n10	5n 0	14s39	0n35	0n39	1n 6	2s28	1n 8	20s14	0n33	5n14	2n 1	22n54	0n26	2n19	1n22	25n 7	6n 4	12s55	13s 6	10s52	16n43	4s39	
S 2	17 24	26 56	4 50	15 15	0 28	0 21	1 11	2 43	1 8	20 17	0 33	5 12	2 1	22 54	0 26	2 18	1 22	25 7	6 4	12 58	13 7	10 55	16 42	4 39	
M 3	17 41	27 47	4 21	15 51	0 21	0 1	1 16	2 59	1 8	20 20	0 33	5 11	2 1	22 54	0 26	2 17	1 22	25 7	6 4	13 2	13 8	10 58	16 41	4 40	
T 4	17 57	26 48	3 37	16 25	0 14	0s18	1 21	3 14	1 8	20 22	0 33	5 9	2 1	22 54	0 26	2 17	1 22	25 7	6 4	13 4	13 9	11 1	16 41	4 40	
W 5	18 13	24 15	2 43	16 59	0 8	0 38	1 26	3 29	1 7	20 25	0 33	5 7	2 2	22 55	0 26	2 16	1 22	25 8	6 5	13 6	13 10	11 4	16 40	4 40	
T 6	18 29	20 30	1 41	17 32	0 1	0 58	1 30	3 44	1 7	20 27	0 33	5 5	2 2	22 55	0 26	2 16	1 22	25 8	6 5	13 7	13 11	11 7	16 39	4 40	
F 7	18 44	15 55	0 36	18 4	0s 6	1 18	1 35	3 59	1 7	20 30	0 33	5 4	2 2	22 55	0 26	2 15	1 22	25 8	6 5	13 7	13 12	11 10	16 38	4 40	
S 8	18 59	10 48	0s29	18 35	0 12	1 39	1 39	4 14	1 7	20 33	0 33	5 2	2 2	22 55	0 26	2 15	1 23	25 9	6 5	13 7	13 13	11 13	16 37	4 40	
S 9	19 14	5 24	1 31	19 6	0 19	2 0	1 43	4 29	1 7	20 35	0 32	5 0	2 3	22 55	0 26	2 14	1 23	25 9	6 6	13 7	13 14	11 16	16 37	4 41	
M10	19 28	0s 8	2 28	19 35	0 26	2 21	1 47	4 43	1 7	20 38	0 32	4 59	2 3	22 56	0 26	2 14	1 23	25 9	6 6	13 8	13 15	11 19	16 36	4 41	
T 11	19 42	5 36	3 19	20 4	0 32	2 42	1 50	4 58	1 6	20 40	0 32	4 57	2 3	22 56	0 26	2 13	1 23	25 10	6 6	13 10	13 16	11 22	16 35	4 41	
W12	19 56	10 53	4 1	20 32	0 38	3 4	1 54	5 13	1 6	20 43	0 32	4 56	2 3	22 56	0 26	2 13	1 23	25 10	6 6	13 12	13 17	11 26	16 34	4 41	
T 13	20 9	15 48	4 33	20 58	0 45	3 26	1 57	5 28	1 6	20 45	0 32	4 54	2 4	22 56	0 26	2 12	1 23	25 10	6 7	13 16	13 18	11 29	16 34	4 41	
F 14	20 22	20 9	4 52	21 24	0 51	3 47	2 0	5 43	1 6	20 48	0 32	4 53	2 4	22 56	0 26	2 12	1 23	25 11	6 7	13 20	13 19	11 32	16 33	4 41	
S 15	20 34	23 43	4 59	21 48	0 57	4 9	2 4	5 57	1 6	20 50	0 32	4 51	2 4	22 57	0 26	2 11	1 23	25 11	6 7	13 25	13 21	11 35	16 32	4 42	
S 16	20 46	26 16	4 53	22 12	1 3	4 32	2 6	6 12	1 5	20 53	0 32	4 50	2 4	22 57	0 26	2 11	1 23	25 11	6 7	13 30	13 22	11 38	16 31	4 42	
M17	20 58	27 34	4 32	22 34	1 8	4 54	2 9	6 27	1 5	20 55	0 32	4 49	2 5	22 57	0 26	2 11	1 23	25 12	6 7	13 35	13 23	11 41	16 30	4 42	
T 18	21 9	27 28	3 58	22 55	1 14	5 16	2 12	6 41	1 5	20 57	0 32	4 47	2 5	22 57	0 26	2 10	1 23	25 12	6 8	13 38	13 24	11 44	16 30	4 42	
W19	21 20	25 55	3 11	23 16	1 19	5 39	2 14	6 56	1 5	21 0	0 32	4 46	2 5	22 58	0 26	2 10	1 23	25 12	6 8	13 41	13 25	11 47	16 29	4 42	
T 20	21 31	22 59	2 14	23 34	1 25	6 2	2 16	7 10	1 5	21 2	0 31	4 45	2 5	22 58	0 26	2 9	1 23	25 13	6 8	13 43	13 26	11 50	16 28	4 42	
F 21	21 41	18 49	1 9	23 52	1 30	6 24	2 19	7 25	1 4	21 5	0 31	4 44	2 6	22 58	0 26	2 9	1 23	25 13	6 8	13 44	13 27	11 53	16 27	4 42	
S 22	21 50	13 39	0n 1	24 9	1 34	6 47	2 20	7 39	1 4	21 7	0 31	4 42	2 6	22 58	0 26	2 9	1 23	25 13	6 9	13 44	13 28	11 56	16 27	4 42	
S 23	22 9	7 44	1 13	24 24	1 39	7 10	2 22	7 54	1 4	21 9	0 31	4 41	2 6	22 59	0 26	2 8	1 23	25 14	6 9	13 44	13 29	11 59	16 26	4 42	
M24	22 9	1 20	2 21	24 38	1 43	7 33	2 24	8 8	1 4	21 11	0 31	4 40	2 6	22 59	0 26	2 8	1 23	25 14	6 9	13 44	13 30	12 2	16 25	4 42	
T 25	22 17	5n16	3 23	24 50	1 48	7 55	2 26	8 22	1 3	21 14	0 31	4 39	2 7	22 59	0 26	2 8	1 23	25 15	6 9	13 45	13 31	12 5	16 25	4 43	
W26	22 25	11 42	4 13	25 2	1 51	8 18	2 27	8 36	1 3	21 16	0 31	4 38	2 7	22 59	0 26	2 7	1 23	25 15	6 9	13 46	13 32	12 8	16 24	4 43	
T 27	22 32	17 35	4 46	25 11	1 55	8 41	2 28	8 50	1 3	21 18	0 31	4 37	2 7	23 0	0 26	2 7	1 23	25 15	6 10	13 49	13 33	12 11	16 23	4 43	
F 28	22 40	22 28	5 1	25 20	1 58	9 4	2 29	9 4	1 3	21 20	0 31	4 36	2 7	23 0	0 26	2 7	1 24	25 16	6 10	13 52	13 34	12 14	16 22	4 43	
S 29	22 46	25 54	4 56	25 27	2 1	9 27	2 30	9 18	1 2	21 22	0 31	4 35	2 8	23 0	0 27	2 7	1 24	25 16	6 10	13 55	13 35	12 17	16 22	4 43	
S 30	22s52	27n33	4n32	25s33	2s 4	9s49	2n31	9s32	1n 2	21s25	0n31	4n35	2n 8	23n 0	0n27	2n 6	1n24	25n17	6n10	13s59	13s36	12s20	16n21	4s43	

ASTRODIENST EPHEMERIS for the year 1449

geocentric

DECEMBER 1449 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	5 14 0	17°59'31	3°11	28°25	3°11	27°49	9°32	23°28	15°R49	27°56	4°R 5	22°R34	23°49	21°22	3°R47	M 1
T 2	5 17 57	19° 0'37	17° 8	29°59	4°14	28°27	9°46	23°31	15°47	27°57	4° 5	22°27	23°46	21°28	3°II44	T 2
W 3	5 21 53	20° 1'44	0°40	1°34	5°22	29° 5	9°59	23°33	15°45	27°57	4° 4	22°22	23°42	21°35	3°40	W 3
T 4	5 25 50	21° 2'51	13°45	3° 9	6°31	29°43	10°13	23°35	15°42	27°58	4° 3	22°20	23°39	21°42	3°37	T 4
F 5	5 29 47	22° 3'59	26°26	4°43	7°40	0°11	10°26	23°38	15°40	27°59	4° 2	22°D20	23°36	21°49	3°33	F 5
S 6	5 33 43	23° 5'08	8°47	6°17	8°49	0°58	10°39	23°40	15°38	27°59	4° 1	22°20	23°33	21°55	3°30	S 6
S 7	5 37 40	24° 6'17	20°52	7°51	9°59	1°36	10°53	23°42	15°35	28° 0	4° 0	22°R21	23°30	22° 2	3°27	S 7
M 8	5 41 36	25° 7'27	2°47	9°24	11° 8	2°14	11° 6	23°44	15°33	28° 0	3°59	22°21	23°26	22° 9	3°23	M 8
T 9	5 45 33	26° 8'38	14°37	10°57	12°18	2°52	11°20	23°45	15°31	28° 1	3°58	22°19	23°23	22°15	3°20	T 9
W10	5 49 29	27° 9'49	26°27	12°30	13°27	3°30	11°33	23°47	15°28	28° 1	3°57	22°14	23°20	22°22	3°17	W10
T 11	5 53 26	28°11'00	8°11	14° 1	14°37	4° 8	11°46	23°49	15°26	28° 1	3°56	22° 7	23°17	22°29	3°13	T 11
F 12	5 57 22	29°12'12	20°26	15°32	15°47	4°46	12° 0	23°50	15°23	28° 2	3°55	21°59	23°14	22°35	3°10	F 12
S 13	6 1 19	0°13'25	2°40	17° 1	16°58	5°23	12°13	23°52	15°21	28° 2	3°53	21°49	23°11	22°42	3° 7	S 13
S 14	6 5 16	1°14'37	15° 8	18°30	18° 8	6° 1	12°26	23°53	15°18	28° 2	3°52	21°39	23° 7	22°49	3° 4	S 14
M15	6 9 12	2°15'50	27°48	19°56	19°18	6°39	12°39	23°54	15°16	28° 3	3°51	21°29	23° 4	22°56	3° 1	M15
T 16	6 13 9	3°17'03	10°43	21°20	20°29	7°17	12°53	23°55	15°13	28° 3	3°50	21°21	23° 1	23° 2	2°58	T 16
W17	6 17 5	4°18'16	23°49	22°42	21°39	7°54	13° 6	23°56	15°11	28° 3	3°49	21°16	22°58	23° 9	2°55	W17
T 18	6 21 2	5°19'29	7° 8	24° 1	22°50	8°32	13°19	23°57	15° 8	28° 3	3°48	21°13	22°55	23°16	2°52	T 18
F 19	6 24 58	6°20'41	20°36	25°16	24° 1	9°10	13°32	23°58	15° 6	28° 3	3°46	21°D11	22°52	23°22	2°49	F 19
S 20	6 28 55	7°21'53	4°15	26°27	25°12	9°48	13°45	23°58	15° 3	28° 3	3°45	21°12	22°48	23°29	2°47	S 20
S 21	6 32 51	8°23'05	18° 3	27°34	26°23	10°25	13°58	23°59	15° 1	28°R 3	3°44	21°13	22°45	23°36	2°44	S 21
M22	6 36 48	9°24'16	2°11	28°34	27°34	11° 3	14°11	23°59	14°58	28° 3	3°43	21°15	22°42	23°42	2°41	M22
T 23	6 40 45	10°25'27	16° 6	29°29	28°45	11°41	14°24	24° 0	14°55	28° 3	3°41	21°R15	22°39	23°49	2°38	T 23
W24	6 44 41	11°26'37	0°10	0°16	29°57	12°18	14°37	24° 0	14°53	28° 3	3°40	21°13	22°36	23°56	2°36	W24
T 25	6 48 38	12°27'46	14°38	0°55	1° 8	12°56	14°50	24°R 0	14°50	28° 3	3°39	21°10	22°32	24° 3	2°33	T 25
F 26	6 52 34	13°28'55	28°59	1°26	2°20	13°34	15° 2	24° 0	14°48	28° 3	3°38	21° 5	22°29	24° 9	2°31	F 26
S 27	6 56 31	14°30'03	13°17	1°46	3°31	14°11	15°15	24° 0	14°45	28° 3	3°36	20°59	22°26	24°16	2°28	S 27
S 28	7 0 27	15°31'11	27°27	1°R56	4°43	14°49	15°28	23°59	14°42	28° 2	3°35	20°53	22°23	24°23	2°26	S 28
M29	7 4 24	16°32'19	11°24	1°54	5°55	15°27	15°41	23°59	14°40	28° 2	3°34	20°48	22°20	24°29	2°24	M29
T 30	7 8 20	17°33'25	25° 5	1°41	7° 7	16° 4	15°53	23°59	14°37	28° 2	3°32	20°44	22°17	24°36	2°21	T 30
W31	7 12 17	18°34'31	8°26	1°16	8°18	16°14	16° 6	23°58	14°35	28° 2	3°31	20°41	22°13	24°43	2°19	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	22s58	27n19	3n50	25s37	2s 7	10s12	2n32	9s46	1n 2	21s27	0n31	4n34	2n 8	23n 1	0n27	2n 6
T 2	23 3	25 19	2 56	25 39	2 9	10 34	2 33	10 0	1 2	21 29	0 31	4 33	2 8	23 1	0 27	2 6
W 3	23 8	21 54	1 53	25 40	2 10	10 57	2 33	10 14	1 1	21 31	0 30	4 32	2 9	23 1	0 27	2 6
T 4	23 13	17 29	0 46	25 40	2 11	11 19	2 33	10 27	1 1	21 33	0 30	4 31	2 9	23 2	0 27	2 6
F 5	23 16	12 24	0s22	25 38	2 12	11 41	2 34	10 41	1 1	21 35	0 30	4 31	2 9	23 2	0 27	2 5
S 6	23 20	6 58	1 27	25 34	2 13	12 3	2 34	10 54	1 0	21 37	0 30	4 30	2 10	23 2	0 27	2 5
S 7	23 23	1 23	2 27	25 29	2 13	12 25	2 34	11 8	1 0	21 39	0 30	4 30	2 10	23 2	0 27	2 5
M 8	23 25	4s 9	3 19	25 22	2 12	12 47	2 33	11 21	1 0	21 41	0 30	4 29	2 10	23 3	0 27	2 5
T 9	23 27	9 30	4 2	25 14	2 11	13 8	2 33	11 34	0 59	21 43	0 30	4 29	2 10	23 3	0 27	2 5
W10	23 29	14 31	4 36	25 4	2 9	13 30	2 33	11 48	0 59	21 45	0 30	4 28	2 11	23 3	0 27	2 5
T 11	23 30	19 1	4 57	24 52	2 7	13 51	2 32	12 1	0 59	21 46	0 30	4 28	2 11	23 4	0 27	2 5
F 12	23 31	22 49	5 5	24 39	2 4	14 12	2 32	12 14	0 58	21 48	0 30	4 28	2 11	23 4	0 27	2 4
S 13	23 31	25 40	5 0	24 25	2 0	14 32	2 31	12 27	0 58	21 50	0 30	4 27	2 12	23 4	0 27	2 4
S 14	23 30	27 20	4 41	24 8	1 56	14 53	2 30	12 40	0 58	21 52	0 30	4 27	2 12	23 4	0 27	2 4
M15	23 30	27 37	4 7	23 51	1 50	15 13	2 29	12 52	0 57	21 54	0 30	4 27	2 12	23 5	0 27	2 4
T 16	23 28	26 24	3 20	23 32	1 45	15 32	2 28	13 5	0 57	21 55	0 30	4 27	2 12	23 5	0 27	2 4
W17	23 27	23 44	2 22	23 12	1 38	15 52	2 27	13 18	0 57	21 57	0 30	4 27	2 13	23 5	0 27	2 4
T 18	23 24	19 46	1 15	22 51	1 30	16 11	2 26	13 30	0 56	21 59	0 29	4 27	2 13	23 6	0 27	2 4
F 19	23 22	14 43	0 3	22 29	1 21	16 30	2 25	13 43	0 56	22 0	0 29	4 27	2 13	23 6	0 27	2 4
S 20	23 18	8 54	1n10	22 6	1 11	16 48	2 23	13 55	0 56	22 2	0 29	4 27	2 14	23 6	0 27	2 4
S 21	23 15	2 35	2 20	21 42	1 1	17 6	2 22	14 7	0 55	22 4	0 29	4 27	2 14	23 7	0 27	2 4
M22	23 11	3n54	3 23	21 18	0 49	17 24	2 20	14 19	0 55	22 5	0 29	4 27	2 14	23 7	0 27	2 4
T 23	23 6	10 15	4 14	20 54	0 36	17 41	2 19	14 31	0 54	22 7	0 29	4 27	2 14	23 7	0 27	2 4
W24	23 1	16 8	4 50	20 31	0 22	17 58	2 17	14 43	0 54	22 8	0 29	4 27	2 15	23 8	0 27	2 5
T 25	22 56	21 11	5 8	20 8	0 7	18 15	2 15	14 55	0 54	22 10	0 29	4 27	2 15	23 8	0 27	2 5
F 26	22 50	24 59	5 7	19 45	0n 9	18 31	2 13	15 7	0 53	22 11	0 29	4 28	2 15	23 8	0 27	2 5
S 27	22 43	27 13	4 47	19 24	0 26	18 47	2 11	15 18	0 53	22 13	0 29	4 28	2 16	23 8	0 27	2 5
S 28	22 36	27 39	4 10	19 5	0 44	19 2	2 9	15 30	0 52	22 14	0 29	4 28	2 16	23 9	0 27	2 5
M29	22 29	26 18	3 18	18 47	1 2	19 17	2 7	15 41	0 52	22 16	0 29	4 29	2 16	23 9	0 27	2 5
T 30	22 21	23 24	2 15	18 32	1 21	19 31	2 5	15 53	0 51	22 17	0 29	4 29	2 16	23 9	0 27	2 5
W31	22s13	19n17	1n 6	18s19	1n40	19s45	2n 2	16s 4	0n51	22s18	0n29	4n30	2n17	23n10	0n27	2n 5

Julian Day Number = 2250639.5, Delta T = 06m30s

Ecliptic obliquity = 23°30'45", Nutation = 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°03'58", Lahiri = 16°10'58" Julian Calendar 1 Dec. 1449 == Greg. Calendar 10 Dec. 1449