



# Astrodienst Ephemeris Tables for the year 1453

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 1453

## geocentric

JANUARY 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day	
M 1	7 17 19	19°51'51	2°49	5°49	4°46	28°42	6°29	0°11	7	28°R57	4°R36	8°R18	25°R15	24°48	26°56	27°R30	M 1
T 2	7 21 15	20°52'56	16°50	7°21	4°59	29°11	6°41	0°9	9	28°54	4°36	8°17	25°D14	24°5	27°3	27°II26	T 2
W 3	7 25 12	21°54'02	0°11	8°53	5°52	29°39	6°53	0°12	28°52	4°36	8°15	25°14	24°2	27°9	27°22	W 3	
T 4	7 29 8	22°55'06	13°47	10°26	6°46	0°9	7°6	0°15	28°49	4°35	8°14	25°15	23°59	27°16	27°19	T 4	
F 5	7 33 5	23°56'11	26°47	11°59	7°41	0°38	7°18	0°18	28°46	4°35	8°13	25°17	23°55	27°23	27°15	F 5	
S 6	7 37 1	24°57'15	9°31	13°33	8°37	1°7	7°30	0°20	28°44	4°35	8°11	25°19	23°52	27°29	27°12	S 6	
S 7	7 40 58	25°58'18	22°2	15°8	9°33	1°37	7°43	0°23	28°41	4°35	8°10	25°R20	23°49	27°36	27°8	S 7	
M 8	7 44 55	26°59'21	4°32	16°43	10°29	2°7	7°56	0°25	28°38	4°34	8°8	25°19	23°46	27°43	27°5	M 8	
T 9	7 48 51	28°0'23	16°33	18°19	11°26	2°37	8°8	0°27	28°36	4°34	8°7	25°17	23°43	27°49	27°2	T 9	
W10	7 52 48	29°1'25	28°36	19°55	12°24	3°7	8°21	0°29	28°33	4°33	8°6	25°14	23°40	27°56	26°59	W10	
T 11	7 56 44	0°2'25	10°34	21°32	13°22	3°37	8°34	0°31	28°31	4°33	8°4	25°8	23°36	28°3	26°55	T 11	
F 12	8 0 41	1°3'24	22°28	23°10	14°21	4°8	8°47	0°33	28°28	4°32	8°3	25°1	23°33	28°10	26°52	F 12	
S 13	8 4 37	2°4'22	4°19	24°48	15°20	4°39	9°0	0°35	28°25	4°32	8°1	24°54	23°30	28°16	26°49	S 13	
S 14	8 8 34	3°5'19	16°10	26°28	16°19	5°10	9°13	0°37	28°23	4°31	8°0	24°47	23°27	28°23	26°46	S 14	
M15	8 12 30	4°6'14	28°3	28°7	17°19	5°41	9°26	0°38	28°20	4°31	7°59	24°40	23°24	28°30	26°43	M15	
T 16	8 16 27	5°7'09	10°19	29°48	18°19	6°12	9°40	0°40	28°18	4°30	7°57	24°35	23°20	28°36	26°40	T 16	
W17	8 20 24	6°8'02	22°10	1°29	19°20	6°43	9°53	0°41	28°15	4°29	7°56	24°32	23°17	28°43	26°37	W17	
T 18	8 24 20	7°8'53	4°31	3°11	20°21	7°14	10°6	0°43	28°12	4°29	7°54	24°D31	23°14	28°50	26°35	T 18	
F 19	8 28 17	8°9'43	17°11	4°54	21°23	7°46	10°20	0°44	28°10	4°28	7°53	24°32	23°11	28°57	26°32	F 19	
S 20	8 32 13	9°10'32	0°13	6°37	22°24	8°18	10°33	0°45	28°7	4°27	7°51	24°33	23°8	29°3	26°29	S 20	
S 21	8 36 10	10°11'19	13°41	8°21	23°26	8°50	10°47	0°46	28°5	4°26	7°50	24°34	23°5	29°10	26°27	S 21	
M22	8 40 6	11°12'05	27°38	10°6	24°29	9°22	11°0	0°47	28°2	4°26	7°49	24°R35	23°1	29°17	26°24	M22	
T 23	8 44 3	12°12'49	12°3	11°52	25°32	9°54	11°14	0°48	28°0	4°25	7°47	24°33	22°58	29°23	26°22	T 23	
W24	8 47 59	13°13'32	26°54	13°39	26°35	10°26	11°27	0°48	27°57	4°24	7°46	24°30	22°55	29°30	26°20	W24	
T 25	8 51 56	14°14'13	12°2	15°26	27°38	10°58	11°41	0°49	27°55	4°23	7°44	24°24	22°52	29°37	26°17	T 25	
F 26	8 55 53	15°14'52	27°20	17°14	28°42	11°31	11°55	0°50	27°52	4°22	7°43	24°17	22°49	29°44	26°15	F 26	
S 27	8 59 49	16°15'31	12°36	19°3	29°46	12°3	12°9	0°50	27°50	4°21	7°42	24°8	22°45	29°50	26°13	S 27	
S 28	9 3 46	17°16'07	27°38	20°52	0°50	12°36	12°22	0°50	27°47	4°20	7°40	24°0	22°42	29°57	26°11	S 28	
M29	9 7 42	18°16'43	12°19	22°42	1°54	13°8	12°36	0°50	27°45	4°19	7°39	23°54	22°39	0°4	26°9	M29	
T 30	9 11 39	19°17'17	26°33	24°33	2°59	13°41	12°50	0°R51	27°42	4°18	7°37	23°49	22°36	0°10	26°7	T 30	
W31	9 15 35	20°17'51	10°20	26°24	4°3	14°14	13°4	0°11	27°40	4°17	7°36	23°47	22°33	0°17	26°II6	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
M 1	22s 2	5s53	5s12	24s20	0s57	16s56	4n10	12n 1	1n 3	10s12	1s 7	9s14	2n28	21n 1	0n36	0s25	1n32	25n34	7n36	23s25	23s23	8s16	16n45	6s44			
T 2	21 53	11 8	4 53	24 21	1 3	17 6	4 9	12 12	1 4	10 7	1 7	9 15	2 28	21 1	0 36	0 25	1 33	25 34	7 36	23 25	23 23	8 13	16 45	6 44			
W 3	21 43	15 41	4 17	24 21	1 9	17 17	4 8	12 23	1 4	10 2	1 6	9 16	2 29	21 2	0 36	0 25	1 33	25 35	7 36	23 25	23 22	8 11	16 45	6 44			
T 4	21 33	19 20	3 29	24 20	1 14	17 27	4 6	12 34	1 5	9 58	1 6	9 16	2 29	21 3	0 36	0 25	1 33	25 35	7 36	23 25	23 22	8 8	16 45	6 44			
F 5	21 23	21 56	2 30	24 17	1 20	17 38	4 5	12 45	1 6	9 53	1 6	9 17	2 29	21 3	0 36	0 25	1 33	25 36	7 36	23 26	23 22	8 5	16 45	6 43			
S 6	21 12	23 21	1 26	24 13	1 25	17 48	4 3	12 56	1 7	9 48	1 6	9 18	2 29	21 4	0 36	0 24	1 33	25 36	7 36	23 26	23 22	8 3	16 46	6 43			
S 7	21 1	23 34	0 18	24 8	1 30	17 58	4 1	13 7	1 7	9 43	1 6	9 18	2 30	21 4	0 36	0 24	1 33	25 37	7 37	23 26	23 22	8 0	16 46	6 43			
M 8	20 49	22 37	0n49	24 1	1 34	18 9	3 59	13 19	1 8	9 38	1 6	9 19	2 30	21 5	0 36	0 24	1 33	25 37	7 37	23 26	23 22	7 57	16 46	6 43			
T 9	20 37	20 36	1 53	23 53	1 38	18 19	3 57	13 30	1 9	9 34	1 6	9 19	2 30	21 5	0 36	0 24	1 33	25 38	7 37	23 26	23 22	7 55	16 46	6 43			
W10	20 25	17 42	2 52	23 43	1 42	18 28	3 54	13 41	1 9	9 29	1 6	9 20	2 30	21 6	0 36	0 24	1 33	25 38	7 37	23 25	23 21	7 52	16 46	6 42			
T 11	20 12	14 5	3 42	23 31	1 46	18 38	3 52	13 52	1 10	9 24	1 6	9 20	2 31	21 6	0 36	0 23	1 33	25 39	7 37	23 25	23 21	7 50	16 46	6 42			
F 12	19 59	9 56	4 22	23 19	1 49	18 47	3 49	14 3	1 11	9 19	1 6	9 21	2 31	21 7	0 36	0 23	1 33	25 39	7 37	23 25	23 21	7 47	16 47	6 42			
S 13	19 45	5 27	4 50	23 4	1 52	18 57	3 47	14 14	1 11	9 14	1 6	9 21	2 31	21 7	0 36	0 23	1 33	25 40	7 37	23 25	23 21	7 44	16 47	6 42			
S 14	19 31	0 46	5 6	22 49	1 55	19 6	3 44	14 25	1 12	9 9	1 6	9 22	2 31	21 8	0 36	0 23	1 33	25 40	7 37	23 24	23 21	7 42	16 47	6 41			
M15	19 17	3n57	5 9	22 31	1 58	19 14	3 41	14 36	1 13	9 4	1 5	9 22	2 32	21 8	0 36	0 22	1 33	25 41	7 37	23 24	23 21	7 39	16 47	6 41			
T 16	19 3	8 33	4 59	22 12	2 0	19 23	3 38	14 46	1 13	8 59	1 5	9 22	2 32	21 9	0 36	0 22	1 33	25 41	7 38	23 24	23 21	7 36	16 47	6 41			
W17	18 48	12 54	4 35	21 52	2 1	19 31	3 35	14 57	1 14	8 54	1 5	9 22	2 32	21 10	0 36	0 22	1 33	25 42	7 38	23 24	23 20	7 34	16 48	6 40			
T 18	18 32	16 47	3 58	21 30	2 3	19 39	3 31	15 8	1 14	8 49	1 5	9 23	2 32	21 10	0 36	0 21	1 33	25 42	7 38	23 24	23 20	7 31	16 48	6 40			
F 19	18 17	20 1	3 8	21 6	2 4	19 46	3 28	15 19	1 15	8 43	1 5	9 23	2 33	21 11	0 36	0 21	1 33	25 43	7 38	23 24	23 20	7 28	16 48	6 40			
S 20	18 1	22 20	2 8	20 41	2 4	19 53	3 25	15 30	1 15	8 38	1 5	9 23	2 33	21 11	0 36	0 21	1 34	25 43	7 38	23 24	23 20	7 26	16 48	6 39			
S 21	17 45	23 29	0 59	20 14	2 4	20 0	3 21	15 41	1 16	8 33	1 5	9 23	2 33	21 12	0 36	0 20	1 34	25 44	7 38	23 24	23 20	7 23	16 49	6 39			
M22	17 28	23 13	0s17	19 45	2 4	20 6	3 17	15 51	1 16	8 28	1 5	9 23	2 33	21 12	0 36	0 20	1 34	25 44	7 38	23 24	23 20	7 20	16 49	6 39			
T 23	17 11	21 25	1 33	19 15	2 3	20 12	3 14	16 2	1 17	8 23	1 5	9 23	2 34	21 13	0 36	0 20	1 34	25 44	7 38	23 24	23 19	7 18	16 49	6 38			
W24	16 54	18 8	2 45	18 43	2 2	20 18	3 10	16 13	1 17	8 17	1 5	9 23	2 34	21 13	0 36	0 19	1 34	25 45	7 38	23 24	23 19	7 15	16 50	6 38			
T 25	16 36	13 36	3 47	18 10	2 0	20 23	3 6	16 23	1 17	8 12	1 5	9 23	2 34	21 14	0 36	0 19	1 34	25 45	7 38	23 23	23 19	7 13	16 50	6 38			
F 26	16 19	8 9	4 33	17 35	1 58	20 28	3 2	16 34	1 18	8 7	1 5	9 23	2 34	21 14	0 36	0 18	1 34	25 46	7 38	23 23	23 19	7 10	16 50	6 37			
S 27	16 1	2 14	5 0	16 59	1 55	20 32	2 58	16 44	1 18	8 1	1 5	9 23	2 35	21 15	0 36	0 18	1 34	25 46	7 38	23 23	23 19	7 7	16 51	6 37			
S 28	15 42	3s44	5 6	16 21	1 52	20 36	2 54	16 55	1 19	7 56	1 5	9 23	2 35	21 15	0 36	0 18	1 34	25 47	7 38	23 22	23 19	7 5	16 51	6 37			
M29	15 24	9 20	4 51	15 41	1 48	20 40	2 50	17 5	1 19	7 51	1 5	9 23	2 35	21 16	0 36	0 17	1 34	25 47	7 38	23 22	23 18	7 2	16 51	6 36			
T 30	15 5	14 17	4 18	15 0	1 43	20 43	2 46	17 15	1 19	7 45	1 5	9 22	2 35	21 16	0 36	0 17	1 34	25 47	7 38	23 22	23 18	6 59	16 52	6 36			
W31	14s46	18s18	3s31	14s18	1s38	20s45	2n42	17n26	1n20	7s40	1s 5	9s22	2n36	21n17	0n36	0s16	1n34	25n48	7n38	23s22	23s18	6s57	16m52	6s35			

# ASTRODIENST EPHEMERIS for the year 1453

## geocentric

FEBRUARY 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 19 32	21°18'23	23°39	28°15	5°9	14°47	13°18	0°R50	27°R38	4°R16	7°R35	23°D46	22°30	0°24	26°R 4	T 1
F 2	9 23 28	22°18'54	6°34	0°7	6°15	15°20	13°32	0°M50	27°35	4°15	7°33	23°47	22°26	0°31	26°II 2	F 2
S 3	9 27 25	23°19'23	19° 9	1°59	7°20	15°53	13°46	0°50	27°33	4°14	7°32	23°R48	22°23	0°37	26° 1	S 3
S 4	9 31 22	24°19'51	1°38	3°50	8°26	16°27	14° 0	0°49	27°31	4°13	7°30	23°48	22°20	0°44	25°59	S 4
M 5	9 35 18	25°20'18	13°36	5°41	9°32	17° 0	14°15	0°49	27°29	4°11	7°29	23°45	22°17	0°51	25°58	M 5
T 6	9 39 15	26°20'43	25°36	7°32	10°39	17°34	14°29	0°48	27°26	4°10	7°28	23°41	22°14	0°57	25°57	T 6
W 7	9 43 11	27°21'06	7°31	9°22	11°45	18° 7	14°43	0°47	27°24	4° 9	7°26	23°33	22°11	1° 4	25°56	W 7
T 8	9 47 8	28°21'28	19°23	11°11	12°52	18°41	14°57	0°46	27°22	4° 8	7°25	23°23	22° 7	1°11	25°54	T 8
F 9	9 51 4	29°21'48	1°15	12°58	13°59	19°15	15°11	0°46	27°20	4° 6	7°24	23°11	22° 4	1°18	25°53	F 9
S 10	9 55 1	0°22'07	13° 7	14°43	15° 6	19°48	15°26	0°44	27°18	4° 5	7°22	22°57	22° 1	1°24	25°53	S 10
S 11	9 58 57	1°22'23	25° 0	16°26	16°13	20°22	15°40	0°43	27°16	4° 4	7°21	22°44	21°58	1°31	25°52	S 11
M12	10 2 54	2°22'38	6°57	18° 6	17°20	20°56	15°54	0°42	27°14	4° 2	7°20	22°32	21°55	1°38	25°51	M12
T 13	10 6 51	3°22'50	19° 0	19°42	18°28	21°30	16° 9	0°41	27°12	4° 1	7°19	22°22	21°51	1°44	25°50	T 13
W14	10 10 47	4°23'01	1°10	21°14	19°35	22° 4	16°23	0°39	27°10	4° 0	7°17	22°14	21°48	1°51	25°50	W14
T 15	10 14 44	5°23'10	13°32	22°41	20°43	22°39	16°38	0°38	27° 8	3°58	7°16	22°10	21°45	1°58	25°49	T 15
F 16	10 18 40	6°23'16	26° 8	24° 4	21°51	23°13	16°52	0°36	27° 6	3°57	7°15	22° 8	21°42	2° 5	25°49	F 16
S 17	10 22 37	7°23'21	9°II 4	25°20	22°59	23°47	17° 6	0°34	27° 4	3°55	7°14	22°D 7	21°39	2°11	25°49	S 17
S 18	10 26 33	8°23'23	22°23	26°30	24° 7	24°21	17°21	0°32	27° 2	3°54	7°13	22°R 8	21°36	2°18	25°48	S 18
M19	10 30 30	9°23'23	6°8 8	27°34	25°15	24°56	17°35	0°30	27° 1	3°53	7°11	22° 7	21°32	2°25	25°48	M19
T 20	10 34 26	10°23'21	20°22	28°30	26°24	25°30	17°50	0°28	26°59	3°51	7°10	22° 5	21°29	2°31	25°D48	T 20
W21	10 38 23	11°23'16	5°II 2	29°18	27°32	26° 5	18° 4	0°26	26°57	3°50	7° 9	22° 0	21°26	2°38	25°48	W21
T 22	10 42 20	12°23'10	20° 5	29°58	28°41	26°39	18°19	0°24	26°56	3°48	7° 8	21°52	21°23	2°45	25°49	T 22
F 23	10 46 16	13°23'01	5°II 22	0°Y30	29°50	27°14	18°33	0°22	26°54	3°47	7° 7	21°42	21°20	2°52	25°49	F 23
S 24	10 50 13	14°22'50	20°43	0°53	0°58	27°49	18°48	0°19	26°53	3°45	7° 6	21°30	21°17	2°58	25°49	S 24
S 25	10 54 9	15°22'37	5°II 55	1° 8	2° 7	28°24	19° 2	0°17	26°51	3°44	7° 5	21°19	21°13	3° 5	25°50	S 25
M26	10 58 6	16°22'23	20°49	1°R14	3°16	28°58	19°17	0°14	26°50	3°42	7° 4	21°10	21°10	3°12	25°50	M26
T 27	11 2 2	17°22'06	5°II 16	1°11	4°26	29°33	19°31	0°12	26°48	3°40	7° 3	21° 2	21° 7	3°18	25°51	T 27
W28	11 5 59	18°21'48	19°II 13	1°Y 0	5°35	0°II 8	19°46	0°II 9	26°47	3°39	7°II 2	20°58	21°4 4	3°25	25°II 52	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	decl lat
T 1	14s26	21s14	2s34	13s34	1s33	20s47	2n38	17n36	1n20	7s34	1s 5	9s22	2n36	21n17	0n36	0s16	1n34
F 2	14 7 22 58	1 31 12 49	1 26 20 49	2 33 17 46	1 20 7 29	1 5 9 22	2 36 21 17	0 36 0 15	1 34 25 49	7 38 23 22	23 18	6 51 16 53	6 34				
S 3	13 47 23 29	0 25 12 2	1 19 20 50	2 29 17 56	1 21 7 24	1 5 9 21	2 36 21 18	0 36 0 15	1 34 25 49	7 38 23 22	23 17	6 49 16 53	6 34				
S 4	13 27 22 49	0n41 11 15	1 12 20 50	2 25 18 6	1 21 7 18	1 4 9 21	2 37 21 18	0 36 0 14	1 34 25 49	7 39 23 22	23 17	6 46 16 53	6 34				
M 5	13 7 21 6	1 44 10 26	1 4 20 50	2 20 18 16	1 21 7 13	1 4 9 20	2 37 21 19	0 36 0 14	1 34 25 50	7 39 23 22	23 17	6 43 16 54	6 33				
T 6	12 46 18 27	2 41 9 37	0 55 20 49	2 16 18 26	1 22 7 7	1 4 9 20	2 37 21 19	0 36 0 13	1 34 25 50	7 39 23 22	23 17	6 41 16 54	6 33				
W 7	12 26 15 3	3 31 8 47	0 45 20 48	2 12 18 35	1 22 7 2	1 4 9 19	2 37 21 20	0 36 0 13	1 34 25 50	7 39 23 21	23 17	6 38 16 55	6 32				
T 8	12 5 11 4	4 11 7 56	0 35 20 47	2 7 18 45	1 22 6 56	1 4 9 19	2 38 21 20	0 36 0 12	1 34 25 51	7 39 23 21	23 17	6 35 16 55	6 32				
F 9	11 44 6 42	4 40 7 5	0 24 20 44	2 3 18 55	1 23 6 50	1 4 9 18	2 38 21 20	0 36 0 12	1 34 25 51	7 39 23 20	23 16	6 33 16 56	6 31				
S 10	11 22 2 5	4 57 6 14	0 13 20 42	1 58 19 4	1 23 6 45	1 4 9 18	2 38 21 21	0 36 0 11	1 34 25 51	7 39 23 19	23 16	6 30 16 56	6 31				
S 11	11 1 2n37	5 1 5 23	0 0 20 38	1 54 19 14	1 23 6 39	1 4 9 17	2 38 21 21	0 36 0 10	1 34 25 52	7 39 23 19	23 16	6 27 16 56	6 31				
M12	10 40 7 14	4 52 4 32	0n12 20 35	1 49 19 23	1 23 6 34	1 4 9 16	2 39 21 22	0 36 0 10	1 35 25 52	7 38 23 18	23 16	6 25 16 57	6 30				
T 13	10 18 11 37	4 30 3 42	0 25 20 30	1 45 19 32	1 24 6 28	1 4 9 16	2 39 21 22	0 36 0 9	1 35 25 52	7 38 23 17	23 16	6 22 16 57	6 30				
W14	9 56 15 35	3 55 2 54	0 39 20 25	1 40 19 41	1 24 6 22	1 4 9 15	2 39 21 22	0 36 0 9	1 35 25 53	7 38 23 17	23 15	6 20 16 58	6 29				
T 15	9 34 18 57	3 9 2 7	0 52 20 20	1 36 19 50	1 24 6 17	1 4 9 14	2 39 21 23	0 36 0 8	1 35 25 53	7 38 23 17	23 15	6 17 16 58	6 29				
F 16	9 12 21 30	2 13 1 21	1 6 20 14	1 31 19 59	1 24 6 11	1 4 9 14	2 39 21 23	0 36 0 8	1 35 25 53	7 38 23 17	23 15	6 14 16 59	6 28				
S 17	8 49 23 0	1 9 0 38	1 20 20 7	1 27 20 8	1 24 6 6	1 4 9 13	2 40 21 23	0 36 0 7	1 35 25 54	7 38 23 17	23 15	6 12 16 59	6 28				
S 18	8 27 23 16	0s 1 0n 3	1 34 20 0	1 22 20 17	1 25 6 0	1 4 9 12	2 40 21 24	0 36 0 6	1 35 25 54	7 38 23 17	23 15	6 9 17 0	6 27				
M19	8 4 22 9	1 13 0 41	1 48 19 52	1 18 20 26	1 25 5 54	1 4 9 11	2 40 21 24	0 36 0 6	1 35 25 54	7 38 23 16	23 14	6 6 17 0	6 27				
T 20	7 42 19 36	2 23 1 16	2 2 19 44	1 13 20 34	1 25 5 49	1 4 9 10	2 40 21 24	0 36 0 5	1 35 25 54	7 38 23 16	23 14	6 4 17 1	6 26				
W21	7 19 15 44	3 26 1 47	2 15 19 35	1 9 20 43	1 25 5 43	1 4 9 9	2 41 21 25	0 36 0 5	1 35 25 55	7 38 23 16	23 14	6 1 17 1	6 26				
T 22	6 56 10 47	4 16 2 15	2 28 19 26	1 4 20 51	1 25 5 37	1 4 9 8	2 41 21 25	0 36 0 4	1 35 25 55	7 38 23 16	23 14	5 58 17 2	6 25				
F 23	6 33 5 6	4 48 2 39	2 40 19 16	1 0 20 59	1 25 5 32	1 4 9 7	2 41 21 25	0 36 0 3	1 35 25 55	7 38 23 15	23 14	5 56 17 2	6 25				
S 24	6 10 0s55	5 0 2 59	2 52 19 6	0 56 21 7	1 26 5 26	1 4 9 6	2 41 21 26	0 36 0 3	1 35 25 55	7 38 23 14	23 13	5 53 17 3	6 24				
S 25	5 47 6 48	4 51 3 14	3 2 18 55	0 51 21 15	1 26 5 20	1 4 9 5	2 41 21 26	0 36 0 2	1 35 25 56	7 38 23 14	23 13	5 50 17 3	6 24				
M26	5 24 12 11	4 22 3 25	3 11 18 43	0 47 21 23	1 26 5 14	1 4 9 4	2 42 21 26	0 36 0 1	1 35 25 56	7 38 23 13	23 13	5 48 17 4	6 23				
T 27	5 0 16 42	3 36 3 31	3 19 18 31	0 43 21 31	1 26 5 9	1 4 9 3	2 42 21 26	0 36 0 1	1 35 25 56	7 38 23 12	23 13	5 45 17 4	6 23				
W28	4s37 20s 8	2s39 3n32	3n26 18s19	0n38 21n38	1n26 5s 3	1s 4 9s 2	2n42 21n27	0n36 0s 0	1n35 25n56	7n38 23s12	23s12	5s42 17n 5	6s22				

Julian Day Number = 2251797.5, Delta T = 06m24s

Ecliptic obliquity = 23°30'36", Nutation = 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°06'37", Lahiri = 16°13'37" Julian Calendar 1 Feb. 1453 == Greg. Calendar 10 Feb. 1453

ASTRODIENST EPHEMERIS for the year 1453  
geocentric

MARCH 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 9 55	19♌21'28	2♌40	0°R42	6♌44	0♌43	20♌0	0°R 6	26°R46	3°R37	7°R 1	20°R56	21♌1	3♌32	25♌52	T 1
F 2	11 13 52	20°21'07	15°40	0°Y16	7°54	1°18	20°15	0°M 3	26°B44	3°B36	7°B 0	20°A55	20°57	3°39	25°53	F 2
S 3	11 17 48	21°20'43	28°16	29♌43	9° 3	1°53	20°30	0° 0	26°43	3°34	6°59	20°55	20°54	3°45	25°54	S 3
S 4	11 21 45	22°20'18	10♌33	29° 5	10°13	2°28	20°44	29♌57	26°42	3°32	6°58	20°54	20°51	3°52	25°55	S 4
M 5	11 25 42	23°19'51	22°38	28°21	11°23	3° 3	20°59	29°54	26°41	3°31	6°57	20°52	20°48	3°59	25°56	M 5
T 6	11 29 38	24°19'22	4♌33	27°34	12°33	3°38	21°13	29°51	26°40	3°29	6°56	20°46	20°45	4° 5	25°58	T 6
W 7	11 33 35	25°18'52	16°24	26°43	13°43	4°13	21°28	29°48	26°39	3°28	6°55	20°38	20°42	4°12	25°59	W 7
T 8	11 37 31	26°18'19	28°14	25°51	14°53	4°49	21°42	29°44	26°38	3°26	6°54	20°27	20°38	4°19	26° 0	T 8
F 9	11 41 28	27°17'45	10♌6	24°59	16° 3	5°24	21°57	29°41	26°37	3°24	6°53	20°14	20°35	4°26	26° 2	F 9
S 10	11 45 24	28°17'08	22° 0	24° 6	17°13	5°59	22°11	29°37	26°36	3°23	6°52	20° 0	20°32	4°32	26° 3	S 10
S 11	11 49 21	29°16'29	4°Y 0	23°15	18°23	6°35	22°26	29°34	26°35	3°21	6°52	19°46	20°29	4°39	26° 5	S 11
M12	11 53 17	0°Y15'49	16° 5	22°27	19°33	7°10	22°40	29°30	26°34	3°19	6°51	19°32	20°26	4°46	26° 7	M12
T 13	11 57 14	1°15'06	28°16	21°41	20°43	7°45	22°55	29°26	26°34	3°18	6°50	19°21	20°22	4°52	26° 9	T 13
W14	12 1 11	2°14'21	10♌37	21° 0	21°54	8°21	23° 9	29°23	26°33	3°16	6°49	19°13	20°19	4°59	26°11	W14
T 15	12 5 7	3°13'34	23° 7	20°23	23° 4	8°56	23°24	29°19	26°33	3°14	6°49	19° 8	20°16	5° 6	26°13	T 15
F 16	12 9 4	4°12'44	5♌49	19°50	24°15	9°32	23°38	29°15	26°32	3°13	6°48	19° 5	20°13	5°13	26°15	F 16
S 17	12 13 0	5°11'53	18°47	19°23	25°25	10° 8	23°52	29°11	26°31	3°11	6°47	19°D 5	20°10	5°19	26°17	S 17
S 18	12 16 57	6°10'59	2♌4	19° 2	26°36	10°43	24° 7	29° 7	26°31	3° 9	6°47	19°R 5	20° 7	5°26	26°19	S 18
M19	12 20 53	7°10'02	15°42	18°46	27°47	11°19	24°21	29° 3	26°31	3° 8	6°46	19° 5	20° 3	5°33	26°22	M19
T 20	12 24 50	8° 9'03	29°43	18°35	28°57	11°54	24°35	28°59	26°30	3° 6	6°46	19° 3	20° 0	5°39	26°24	T 20
W21	12 28 46	9° 8'02	14♌8	18°D30	0°X 8	12°30	24°50	28°55	26°30	3° 5	6°45	18°59	19°57	5°46	26°27	W21
T 22	12 32 43	10° 6'58	28°53	18°31	1°19	13° 6	25° 4	28°51	26°30	3° 3	6°45	18°52	19°54	5°53	26°29	T 22
F 23	12 36 40	11° 5'53	13♌53	18°37	2°30	13°42	25°18	28°47	26°30	3° 1	6°44	18°44	19°51	6° 0	26°32	F 23
S 24	12 40 36	12° 4'44	29° 0	18°48	3°41	14°17	25°32	28°42	26°29	3° 0	6°44	18°34	19°48	6° 6	26°35	S 24
S 25	12 44 33	13° 3'34	14♌3	19° 4	4°52	14°53	25°47	28°38	26°29	2°58	6°43	18°24	19°44	6°13	26°38	S 25
M26	12 48 29	14° 2'22	28°53	19°24	6° 3	15°29	26° 1	28°34	26°D29	2°56	6°43	18°15	19°41	6°20	26°40	M26
T 27	12 52 26	15° 1'08	13♌21	19°50	7°14	16° 5	26°15	28°29	26°29	2°55	6°42	18° 9	19°38	6°27	26°43	T 27
W28	12 56 22	15°59'52	27°22	20°20	8°25	16°41	26°29	28°25	26°30	2°53	6°42	18° 5	19°35	6°33	26°46	W28
T 29	13 0 19	16°58'34	10♌55	20°54	9°36	17°17	26°43	28°21	26°30	2°52	6°42	18° 3	19°32	6°40	26°50	T 29
F 30	13 4 15	17°57'15	24° 1	21°32	10°47	17°52	26°57	28°16	26°30	2°50	6°41	18°D 3	19°28	6°47	26°53	F 30
S 31	13 8 12	18°Y55'54	6♌43	22♌13	11♌58	18♌28	27♌11	28♌12	26°B30	2°B48	6°B41	18♌3	19♌25	6°X53	26♌56	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	4s13	22s18	1s35	3n30	3n30	18s 6	0n34	21n46	1n26	4s57	1s 4	9s 1	2n42	21n27	0n36	0n 1
F 2	3 50	23 12	0 28	3 22	3 34	17 52	0 30	21 53	1 26	4 52	1 4	8 59	2 42	21 27	0 35	0 1
S 3	3 26	22 51	0n39	3 10	3 35	17 38	0 26	22 1	1 26	4 46	1 4	8 58	2 43	21 27	0 35	0 2
S 4	3 3	21 24	1 42	2 55	3 34	17 23	0 22	22 8	1 26	4 40	1 4	8 57	2 43	21 27	0 35	0 3
M 5	2 39	18 59	2 39	2 35	3 32	17 8	0 18	22 15	1 27	4 34	1 4	8 56	2 43	21 28	0 35	0 3
T 6	2 16	15 48	3 29	2 12	3 28	16 53	0 13	22 22	1 27	4 29	1 5	8 54	2 43	21 28	0 35	0 4
W 7	1 52	12 1	4 9	1 47	3 22	16 37	0 9	22 28	1 27	4 23	1 5	8 53	2 43	21 28	0 35	0 4
T 8	1 28	7 46	4 38	1 19	3 14	16 20	0 6	22 35	1 27	4 17	1 5	8 52	2 43	21 28	0 35	0 5
F 9	1 5	3 15	4 55	0 49	3 5	16 3	0 2	22 41	1 27	4 12	1 5	8 50	2 44	21 28	0 35	0 6
S 10	0 41	1n24	4 59	0 19	2 54	15 45	0s 2	22 48	1 27	4 6	1 5	8 49	2 44	21 28	0 35	0 6
S 11	0 17	6 2	4 51	0s13	2 42	15 28	0 6	22 54	1 27	4 0	1 5	8 48	2 44	21 29	0 35	0 7
M12	0n 6	10 28	4 49	0 44	2 28	15 9	0 10	23 0	1 27	3 54	1 5	8 46	2 44	21 29	0 35	0 8
T 13	0 30	14 32	3 54	1 15	2 14	14 50	0 13	23 6	1 27	3 49	1 5	8 45	2 44	21 29	0 35	0 8
W14	0 54	18 2	3 8	1 45	1 59	14 31	0 17	23 12	1 27	3 43	1 5	8 43	2 44	21 29	0 35	0 9
T 15	1 17	20 45	2 13	2 14	1 44	14 12	0 21	23 17	1 27	3 37	1 5	8 42	2 44	21 29	0 35	0 10
F 16	1 41	22 29	1 10	2 41	1 28	13 52	0 24	23 23	1 27	3 32	1 5	8 40	2 45	21 29	0 35	0 10
S 17	2 4	23 4	0 2	3 6	1 12	13 31	0 28	23 28	1 27	3 26	1 5	8 39	2 45	21 29	0 35	0 11
S 18	2 28	22 21	1s 8	3 29	0 57	13 10	0 31	23 33	1 27	3 20	1 5	8 37	2 45	21 29	0 35	0 12
M19	2 51	20 20	2 16	3 50	0 41	12 49	0 34	23 39	1 27	3 15	1 5	8 36	2 45	21 29	0 35	0 12
T 20	3 15	17 3	3 18	4 8	0 25	12 28	0 38	23 43	1 27	3 9	1 5	8 34	2 45	21 29	0 35	0 13
W21	3 38	12 40	4 9	4 24	0 10	12 6	0 41	23 48	1 27	3 3	1 5	8 33	2 45	21 29	0 35	0 14
T 22	4 1	7 27	4 44	4 37	0s 4	11 43	0 44	23 53	1 27	2 58	1 5	8 31	2 45	21 29	0 35	0 14
F 23	4 24	1 43	5 1	4 48	0 19	11 21	0 47	23 57	1 27	2 52	1 5	8 30	2 45	21 29	0 35	0 15
S 24	4 47	4s 9	4 57	4 56	0 32	10 58	0 50	24 2	1 27	2 47	1 5	8 28	2 45	21 29	0 35	0 16
S 25	5 10	9 45	4 33	5 2	0 45	10 35	0 53	24 6	1 27	2 41	1 5	8 27	2 45	21 29	0 35	0 16
M26	5 33	14 42	3 50	5 5	0 58	10 11	0 56	24 10	1 27	2 35	1 6	8 25	2 46	21 29	0 35	0 17
T 27	5 56	18 39	2 54	5 6	1 10	9 47	0 58	24 13	1 27	2 30	1 6	8 23	2 46	21 29	0 35	0 18
W28	6 19	21 23	1 48	5 5	1 21	9 23	1 1	24 17	1 27	2 24	1 6	8 22	2 46	21 29	0 35	0 18
T 29	6 41	22 46	0 38	5 1	1 31	8 59	1 4	24 21	1 27	2 19	1 6	8 20	2 46	21 29	0 35	0 19
F 30	7 4	22 51	0n32	4 55	1 41	8 34	1 6	24 24	1 27	2 13	1 6	8 19	2 46	21 29	0 35	0 20
S 31	7n26	21s42	1n38	4s47	1s50	8s 9	1s 9	24n27	1n27	2s 8	1s 6	8s17	2n46	21n29	0n35	0n20

Julian Day Number = 2251825.5, Delta T = 06m24s

Ecliptic obliquity = 23°30'36", Nutation = 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°06'41", Lahiri = 16°13'41" Julian Calendar 1 March 1453 == Greg. Calendar 10 March 1453







# ASTRODIENST EPHEMERIS for the year 1453

## geocentric

JUNE 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17 12 38	18II40'17	4V56	8♂33	26♂26	26♂10	9V37	24°R23	28♂21	1°R49	7♂15	16♂12	16♂8	13♂50	2♂9	F 1
S 2	17 16 35	19°37'32	17° 0	10°12	27°38	26°47	9°46	24♂22	28°24	1♂49	7°17	16°12	16° 5	13°57	2°15	S 2
S 3	17 20 31	20°34'46	29°17	11°49	28°51	27°24	9°55	24°20	28°27	1°49	7°18	16°13	16° 2	14° 4	2°21	S 3
M 4	17 24 28	21°32'00	11♂48	13°24	0II 4	28° 1	10° 4	24°19	28°30	1°D49	7°19	16°13	15°59	14°10	2°27	M 4
T 5	17 28 25	22°29'15	24°37	14°55	1°17	28°38	10°12	24°17	28°33	1°49	7°21	16°14	15°56	14°17	2°33	T 5
W 6	17 32 21	23°26'29	7II46	16°25	2°29	29°15	10°21	24°16	28°36	1°49	7°22	16°14	15°52	14°24	2°40	W 6
T 7	17 36 18	24°23'42	21°14	17°52	3°42	29°52	10°29	24°15	28°40	1°49	7°24	16°R14	15°49	14°31	2°46	T 7
F 8	17 40 14	25°20'56	5♂0	19°16	4°55	0♂29	10°38	24°14	28°43	1°50	7°25	16°14	15°46	14°37	2°52	F 8
S 9	17 44 11	26°18'09	19° 1	20°38	6° 8	1° 6	10°46	24°13	28°46	1°50	7°26	16°13	15°43	14°44	2°58	S 9
S 10	17 48 7	27°15'21	3♂13	21°57	7°21	1°43	10°54	24°12	28°49	1°50	7°28	16°12	15°40	14°51	3° 5	S 10
M11	17 52 4	28°12'34	17°33	23°13	8°34	2°20	11° 2	24°11	28°53	1°50	7°29	16°10	15°37	14°57	3°11	M11
T 12	17 56 1	29° 9'45	1♂55	24°27	9°47	2°57	11°10	24°10	28°56	1°50	7°31	16° 9	15°33	15° 4	3°17	T 12
W13	17 59 57	0♂6'57	16°16	25°38	10°59	3°35	11°17	24°10	28°59	1°51	7°32	16° 8	15°30	15°11	3°24	W13
T 14	18 3 54	1° 4'07	0♂32	26°46	12°12	4°12	11°25	24° 9	29° 3	1°51	7°34	16°D 8	15°27	15°18	3°30	T 14
F 15	18 7 50	2° 1'18	14°40	27°51	13°25	4°49	11°32	24° 9	29° 6	1°51	7°35	16° 8	15°24	15°24	3°36	F 15
S 16	18 11 47	2°58'28	28°38	28°54	14°38	5°26	11°39	24° 9	29° 9	1°52	7°37	16° 9	15°21	15°31	3°43	S 16
S 17	18 15 43	3°55'38	12♂26	29°53	15°51	6° 3	11°46	24° 8	29°13	1°52	7°38	16°10	15°17	15°38	3°49	S 17
M18	18 19 40	4°52'47	26° 2	0♂49	17° 4	6°40	11°53	24° 8	29°16	1°52	7°40	16°11	15°14	15°45	3°55	M18
T 19	18 23 36	5°49'57	9♂25	1°41	18°17	7°18	12° 0	24°D 8	29°20	1°53	7°42	16°12	15°11	15°51	4° 1	T 19
W20	18 27 33	6°47'06	22°35	2°30	19°31	7°55	12° 6	24° 8	29°23	1°53	7°43	16°R12	15° 8	15°58	4° 8	W20
T 21	18 31 30	7°44'16	5♂32	3°16	20°44	8°32	12°13	24° 8	29°27	1°54	7°45	16°11	15° 5	16° 5	4°14	T 21
F 22	18 35 26	8°41'26	18°16	3°58	21°57	9° 9	12°19	24° 9	29°30	1°55	7°46	16° 9	15° 2	16°11	4°20	F 22
S 23	18 39 23	9°38'36	0♂46	4°36	23°10	9°47	12°25	24° 9	29°34	1°55	7°48	16° 6	14°58	16°18	4°27	S 23
S 24	18 43 19	10°35'46	13° 4	5°11	24°23	10°24	12°31	24°10	29°37	1°56	7°50	16° 2	14°55	16°25	4°33	S 24
M25	18 47 16	11°32'56	25°12	5°41	25°36	11° 1	12°37	24°10	29°41	1°56	7°51	15°58	14°52	16°32	4°39	M25
T 26	18 51 12	12°30'07	7♂11	6° 7	26°50	11°38	12°42	24°11	29°44	1°57	7°53	15°54	14°49	16°38	4°46	T 26
W27	18 55 9	13°27'18	19° 5	6°28	28° 3	12°16	12°48	24°12	29°48	1°58	7°55	15°51	14°46	16°45	4°52	W27
T 28	18 59 5	14°24'30	0V58	6°46	29°16	12°53	12°53	24°12	29°51	1°59	7°56	15°49	14°43	16°52	4°58	T 28
F 29	19 3 2	15°21'43	12°54	6°58	0♂29	13°30	12°58	24°13	29°55	1°59	7°58	15°D48	14°39	16°58	5° 5	F 29
S 30	19 6 59	16♂18'56	24V57	7♂6	1♂43	14♂8	13V3	24♂14	29♂59	2♂0	8♂0	15♂48	14♂36	17♂5	5♂11	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	23n 1	6n33	5n 0	25n14	2n 0	18n17	1s10	22n16	1n19	2n40	1s15	7s 2	2n38	21n 6	0n34	0n42	1n33	25n42	7n27	22s48	22s47	1s38	17n37	5s52			
S 2	23 6	10 53	4 32	25 4	1 58	18 35	1 8	22 9	1 18	2 43	1 16	7 1	2 38	21 5	0 34	0 42	1 33	25 42	7 27	22 48	22 47	1 35	17 37	5 52			
S 3	23 10	14 51	3 52	24 53	1 55	18 54	1 6	22 1	1 18	2 47	1 16	7 1	2 38	21 5	0 34	0 42	1 33	25 41	7 27	22 48	22 46	1 33	17 37	5 52			
M 4	23 14	18 16	2 59	24 40	1 51	19 11	1 4	21 54	1 18	2 50	1 16	7 1	2 38	21 4	0 34	0 42	1 33	25 41	7 27	22 48	22 46	1 30	17 37	5 52			
T 5	23 18	20 52	1 57	24 26	1 47	19 28	1 2	21 46	1 18	2 53	1 16	7 0	2 37	21 3	0 34	0 42	1 33	25 40	7 27	22 48	22 46	1 27	17 37	5 52			
W 6	23 21	22 26	0 47	24 11	1 42	19 45	0 59	21 38	1 18	2 56	1 16	7 0	2 37	21 3	0 33	0 42	1 33	25 40	7 27	22 48	22 45	1 25	17 37	5 52			
T 7	23 23	22 46	0s28	23 54	1 36	20 1	0 57	21 30	1 17	2 59	1 17	7 0	2 37	21 2	0 33	0 42	1 33	25 40	7 27	22 48	22 45	1 22	17 37	5 52			
F 8	23 26	21 43	1 42	23 36	1 30	20 17	0 55	21 22	1 17	3 2	1 17	7 0	2 37	21 1	0 33	0 42	1 33	25 39	7 26	22 48	22 45	1 20	17 37	5 52			
S 9	23 27	19 19	2 52	23 17	1 23	20 32	0 53	21 13	1 17	3 5	1 17	7 0	2 36	21 1	0 33	0 42	1 33	25 39	7 26	22 48	22 44	1 17	17 36	5 52			
S 10	23 29	15 44	3 52	22 57	1 15	20 46	0 50	21 5	1 17	3 8	1 17	7 0	2 36	21 0	0 33	0 41	1 33	25 38	7 26	22 47	22 44	1 14	17 36	5 52			
M11	23 30	11 13	4 37	22 37	1 7	21 0	0 48	20 56	1 16	3 11	1 18	6 59	2 36	20 59	0 33	0 41	1 33	25 38	7 26	22 47	22 44	1 12	17 36	5 52			
T 12	23 30	6 3	5 6	22 15	0 59	21 14	0 46	20 47	1 16	3 14	1 18	6 59	2 36	20 59	0 33	0 41	1 33	25 37	7 26	22 47	22 43	1 9	17 36	5 52			
W13	23 31	0 35	5 16	21 53	0 49	21 26	0 43	20 38	1 16	3 17	1 18	6 59	2 35	20 58	0 33	0 41	1 33	25 37	7 26	22 47	22 43	1 7	17 36	5 52			
T 14	23 30	4s53	5 6	21 31	0 40	21 39	0 41	20 29	1 16	3 19	1 18	7 0	2 35	20 57	0 33	0 41	1 33	25 36	7 26	22 47	22 43	1 4	17 36	5 52			
F 15	23 30	10 3	4 38	21 8	0 30	21 50	0 39	20 20	1 15	3 22	1 19	7 0	2 35	20 57	0 33	0 41	1 33	25 36	7 26	22 47	22 42	1 1	17 35	5 52			
S 16	23 29	14 39	3 53	20 45	0 19	22 1	0 36	20 11	1 15	3 25	1 19	7 0	2 35	20 56	0 33	0 40	1 33	25 36	7 26	22 47	22 42	0 59	17 35	5 52			
S 17	23 27	18 24	2 56	20 22	0 8	22 12	0 34	20 1	1 15	3 27	1 19	7 0	2 34	20 55	0 33	0 40	1 33	25 35	7 26	22 47	22 42	0 56	17 35	5 53			
M18	23 25	21 5	1 49	19 58	0s 4	22 22	0 31	19 52	1 15	3 30	1 19	7 0	2 34	20 54	0 33	0 40	1 33	25 35	7 26	22 47	22 41	0 54	17 35	5 53			
T 19	23 23	22 33	0 37	19 35	0 16	22 31	0 29	19 42	1 14	3 32	1 20	7 0	2 34	20 54	0 33	0 40	1 32	25 34	7 26	22 48	22 41	0 51	17 34	5 53			
W20	23 20	22 43	0n35	19 12	0 28	22 39	0 26	19 32	1 14	3 34	1 20	7 1	2 33	20 53	0 33	0 40	1 32	25 34	7 26	22 48	22 41	0 49	17 34	5 53			
T 21	23 17	21 39	1 44	18 49	0 41	22 47	0 24	19 22	1 14	3 37	1 20	7 1	2 33	20 52	0 33	0 39	1 32	25 33	7 26	22 47	22 40	0 46	17 34	5 53			
F 22	23 13	19 30	2 47	18 26	0 55	22 54	0 21	19 12	1 14	3 39	1 20	7 1	2 33	20 52	0 33	0 39	1 32	25 33	7 26	22 47	22 40	0 43	17 34	5 53			
S 23	23 9	16 27	3 41	18 4	1 8	23 1	0 19	19 2	1 13	3 41	1 21	7 2	2 33	20 51	0 33	0 39	1 32	25 32	7 26	22 47	22 40	0 41	17 33	5 53			
S 24	23 5	12 44	4 23	17 42	1 22	23 7	0 16	18 52	1 13	3 43	1 21	7 2	2 32	20 50	0 33	0 38	1 32	25 32	7 26	22 46	22 39	0 38	17 33	5 53			
M25	23 0	8 34	4 53	17 21	1 36	23 12	0 14	18 41	1 13	3 45	1 21	7 3	2 32	20 49	0 33	0 38	1 32	25 31	7 26	22 46	22 39	0 36	17 33	5 53			
T 26	22 55	4 6	5 9	17 1	1 50	23 17	0 11	18 30	1 13	3 47	1 21	7 3	2 32	20 49	0 33	0 38	1 32	25 31	7 26	22 46	22 39	0 33	17 32	5 53			
W27	22 50	0n28	5 13	16 42	2 5	23 21	0 9	18 20	1 12	3 49	1 22	7 4	2 32	20 48	0 33	0 38	1 32	25 30	7 26	22 45	22 38	0 30	17 32	5 54			
T 28	22 44	5 0	5 2	16 24	2 19	23 24	0 6	18 9	1 12	3 51	1 22	7 4	2 31	20 47	0 33	0 37	1 32	25 30	7 26	22 45	22 38	0 28	17 32	5 54			
F 29	22 37	9 23	4 39	16 7	2 33	23 27	0 4	17 58	1 12	3 52	1 22	7 5	2 31	20 46	0 33	0 37	1 32	25 30	7 26	22 45	22 37	0 25	17 31	5 54			
S 30	22n31	13n27	4n 3	15n51	2s48	23n29	0s 1	17n47	1n12	3n54	1s22	7s 5	2n31	20n45	0n33	0n36	1n32	25n29	7n26	22s45	22s37	0s23	17n31	5s54			

# ASTRODIENST EPHEMERIS for the year 1453

## geocentric

JULY 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 10 55	17°16'10	7♂13	7°R 9	2♂56	14♂45	13°V 8	24♂16	0♂ 2	2♂ 1	8♂ 1	15♂50	14♂33	17♂12	5♂17	S 1
M 2	19 14 52	18°13'25	19°45	7♂ 7	4° 9	15°23	13°12	24°17	0° 6	2° 2	8° 3	15°51	14°30	17°19	5°23	M 2
T 3	19 18 48	19°10'40	2♂38	7° 0	5°23	16° 0	13°17	24°18	0°10	2° 3	8° 5	15°53	14°27	17°25	5°30	T 3
W 4	19 22 45	20° 7'56	15°55	6°49	6°36	16°38	13°21	24°20	0°13	2° 4	8° 7	15°R53	14°23	17°32	5°36	W 4
T 5	19 26 41	21° 5'13	29°36	6°32	7°50	17°15	13°25	24°21	0°17	2° 5	8° 8	15°52	14°20	17°39	5°42	T 5
F 6	19 30 38	22° 2'31	13♂40	6°11	9° 3	17°53	13°29	24°23	0°21	2° 6	8°10	15°50	14°17	17°46	5°48	F 6
S 7	19 34 34	22°59'50	28° 5	5°45	10°17	18°30	13°33	24°24	0°24	2° 7	8°12	15°46	14°14	17°52	5°54	S 7
S 8	19 38 31	23°57'09	12♂45	5°16	11°30	19° 8	13°36	24°26	0°28	2° 8	8°14	15°41	14°11	17°59	6° 0	S 8
M 9	19 42 28	24°54'28	27°31	4°42	12°44	19°45	13°39	24°28	0°32	2° 9	8°15	15°35	14° 8	18° 6	6° 7	M 9
T 10	19 46 24	25°51'48	12♂17	4° 5	13°58	20°23	13°42	24°30	0°35	2°10	8°17	15°30	14° 4	18°12	6°13	T 10
W11	19 50 21	26°49'08	26°56	3°25	15°11	21° 1	13°45	24°32	0°39	2°11	8°19	15°25	14° 1	18°19	6°19	W11
T 12	19 54 17	27°46'29	11♂21	2°43	16°25	21°38	13°48	24°35	0°43	2°12	8°21	15°22	13°58	18°26	6°25	T 12
F 13	19 58 14	28°43'51	25°29	1°59	17°38	22°16	13°51	24°37	0°46	2°13	8°23	15°D21	13°55	18°33	6°31	F 13
S 14	20 2 10	29°41'13	9♂20	1°14	18°52	22°54	13°53	24°39	0°50	2°15	8°24	15°22	13°52	18°39	6°37	S 14
S 15	20 6 7	0♂38'36	22°53	0°29	20° 6	23°31	13°55	24°42	0°54	2°16	8°26	15°23	13°49	18°46	6°43	S 15
M16	20 10 3	1°35'59	6♂10	29♂45	21°20	24° 9	13°57	24°44	0°57	2°17	8°28	15°24	13°45	18°53	6°49	M16
T 17	20 14 0	2°33'23	19°12	29° 3	22°33	24°47	13°59	24°47	1° 1	2°18	8°30	15°R24	13°42	19° 0	6°55	T 17
W18	20 17 57	3°30'48	2♂ 1	28°23	23°47	25°25	14° 1	24°50	1° 5	2°20	8°32	15°23	13°39	19° 6	7° 1	W18
T 19	20 21 53	4°28'13	14°39	27°46	25° 1	26° 2	14° 2	24°52	1° 9	2°21	8°33	15°19	13°36	19°13	7° 7	T 19
F 20	20 25 50	5°25'40	27° 6	27°13	26°15	26°40	14° 3	24°55	1°12	2°22	8°35	15°13	13°33	19°20	7°13	F 20
S 21	20 29 46	6°23'07	9♂23	26°44	27°29	27°18	14° 4	24°58	1°16	2°24	8°37	15° 6	13°29	19°26	7°19	S 21
S 22	20 33 43	7°20'36	21°33	26°21	28°42	27°56	14° 5	25° 1	1°20	2°25	8°39	14°56	13°26	19°33	7°24	S 22
M23	20 37 39	8°18'06	3♂35	26° 3	29°56	28°34	14° 6	25° 5	1°23	2°27	8°41	14°47	13°23	19°40	7°30	M23
T 24	20 41 36	9°15'37	15°31	25°52	1♂10	29°12	14° 6	25° 8	1°27	2°28	8°43	14°37	13°20	19°47	7°36	T 24
W25	20 45 32	10°13'09	27°23	25°D47	2°24	29°50	14° 6	25°11	1°31	2°30	8°44	14°28	13°17	19°53	7°42	W25
T 26	20 49 29	11°10'42	9♂15	25°49	3°38	0♂28	14°R 6	25°15	1°34	2°31	8°46	14°22	13°14	20° 0	7°47	T 26
F 27	20 53 26	12° 8'17	21° 9	25°58	4°52	1° 5	14° 6	25°18	1°38	2°33	8°48	14°17	13°10	20° 7	7°53	F 27
S 28	20 57 22	13° 5'54	3♂10	26°14	6° 6	1°43	14° 6	25°22	1°42	2°34	8°50	14°15	13° 7	20°13	7°59	S 28
S 29	21 1 19	14° 3'32	15°22	26°37	7°20	2°21	14° 5	25°25	1°45	2°36	8°52	14°D14	13° 4	20°20	8° 4	S 29
M30	21 5 15	15° 1'12	27°52	27° 8	8°34	3° 0	14° 5	25°29	1°49	2°38	8°54	14°15	13° 1	20°27	8°10	M30
T 31	21 9 12	15♂58'53	10♂42	27♂46	9♂49	3♂38	14°V 4	25♂33	1♂53	2♂39	8♂55	14°R15	12♂58	20♂34	8♂15	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	22n23	17n 2	3n16	15n36	3s 2	23n30	0n 1	17n35	1n11	3n56	1s23	7s 6	2n30	20n45	0n33	S 1
M 2	22 16	19 56	2 18	15 23	3 16	23 30	0 4	17 24	1 11	3 57	1 23	7 7	2 30	20 44	0 33	M 2
T 3	22 8	21 55	1 12	15 12	3 29	23 30	0 6	17 13	1 11	3 59	1 23	7 7	2 30	20 43	0 33	T 3
W 4	22 0	22 46	0s 0	15 2	3 42	23 29	0 9	17 1	1 10	4 0	1 24	7 8	2 30	20 42	0 33	W 4
T 5	21 51	22 16	1 14	14 54	3 55	23 28	0 11	16 49	1 10	4 1	1 24	7 9	2 29	20 42	0 33	T 5
F 6	21 42	20 24	2 25	14 48	4 6	23 25	0 13	16 38	1 10	4 3	1 24	7 10	2 29	20 41	0 33	F 6
S 7	21 33	17 11	3 29	14 44	4 17	23 22	0 16	16 26	1 10	4 4	1 24	7 11	2 29	20 40	0 33	S 7
S 8	21 23	12 52	4 20	14 42	4 27	23 19	0 18	16 14	1 9	4 5	1 25	7 12	2 29	20 39	0 33	S 8
M 9	21 13	7 45	4 54	14 42	4 35	23 14	0 21	16 2	1 9	4 6	1 25	7 13	2 28	20 38	0 33	M 9
T 10	21 2	2 12	5 9	14 43	4 42	23 9	0 23	15 49	1 9	4 7	1 25	7 14	2 28	20 38	0 33	T 10
W11	20 51	3s25	5 3	14 47	4 48	23 4	0 25	15 37	1 8	4 8	1 26	7 15	2 28	20 37	0 33	W11
T 12	20 40	8 46	4 39	14 53	4 52	22 57	0 28	15 24	1 8	4 9	1 26	7 16	2 28	20 36	0 33	T 12
F 13	20 28	13 34	3 57	15 0	4 54	22 50	0 30	15 12	1 8	4 9	1 26	7 17	2 27	20 35	0 33	F 13
S 14	20 17	17 32	3 2	15 9	4 54	22 42	0 32	14 59	1 8	4 10	1 26	7 18	2 27	20 34	0 33	S 14
S 15	20 4	20 28	1 59	15 20	4 53	22 34	0 34	14 47	1 7	4 11	1 27	7 19	2 27	20 34	0 33	S 15
M16	19 52	22 13	0 50	15 32	4 50	22 25	0 36	14 34	1 7	4 11	1 27	7 20	2 27	20 33	0 33	M16
T 17	19 39	22 44	0n20	15 45	4 45	22 15	0 39	14 21	1 7	4 12	1 27	7 21	2 26	20 32	0 33	T 17
W18	19 26	22 1	1 28	16 0	4 39	22 5	0 41	14 8	1 6	4 12	1 28	7 23	2 26	20 31	0 33	W18
T 19	19 12	20 12	2 31	16 15	4 31	21 54	0 43	13 55	1 6	4 12	1 28	7 24	2 26	20 30	0 33	T 19
F 20	18 58	17 27	3 25	16 31	4 21	21 42	0 45	13 41	1 6	4 12	1 28	7 25	2 26	20 30	0 33	F 20
S 21	18 44	13 58	4 9	16 47	4 10	21 30	0 47	13 28	1 5	4 13	1 28	7 27	2 25	20 29	0 33	S 21
S 22	18 29	9 56	4 40	17 4	3 57	21 17	0 49	13 15	1 5	4 13	1 29	7 28	2 25	20 28	0 33	S 22
M23	18 15	5 34	4 59	17 20	3 44	21 3	0 51	13 1	1 5	4 13	1 29	7 29	2 25	20 27	0 33	M23
T 24	17 59	1 2	5 5	17 37	3 29	20 49	0 53	12 48	1 4	4 12	1 29	7 31	2 25	20 26	0 33	T 24
W25	17 44	3n30	4 57	17 52	3 14	20 34	0 54	12 34	1 4	4 12	1 29	7 32	2 24	20 26	0 33	W25
T 26	17 28	7 55	4 37	18 8	2 58	20 19	0 56	12 20	1 4	4 12	1 30	7 34	2 24	20 25	0 33	T 26
F 27	17 12	12 3	4 5	18 22	2 41	20 3	0 58	12 6	1 3	4 12	1 30	7 35	2 24	20 24	0 34	F 27
S 28	16 56	15 45	3 21	18 36	2 25	19 46	1 0	11 53	1 3	4 11	1 30	7 37	2 24	20 23	0 34	S 28
S 29	16 39	18 51	2 28	18 48	2 8	19 29	1 1	11 39	1 3	4 11	1 31	7 38	2 23	20 22	0 34	S 29
M30	16 23	21 9	1 26	18 59	1 51	19 11	1 3	11 24	1 3	4 10	1 31	7 40	2 23	20 22	0 34	M30
T 31	16n 6	22n26	0n19	19n 8	1s34	18n53	1n 5	11n10	1n 2	4n10	1s31	7s41	2n23	20n21	0n34	T 31

Julian Day Number = 2251947.5, Delta T = 06m23s

Ecliptic obliquity = 23°30'34", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°06'57", Lahiri = 16°13'58" Julian Calendar 1 July 1453 == Greg. Calendar 10 July 1453



ASTRODIENST EPHEMERIS for the year 1453  
geocentric

AUGUST 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 13 8	16Ω56'36	23Π58	28Ω30	11Ω 3	4Π16	14°R 3	25Δ37	1Ω56	2Δ41	8Ω57	14°R15	12Δ55	20Χ40	8Ω21	W 1
T 2	21 17 5	17°54'21	7Ω42	29°22	12°17	4°54	14°Y 1	25°41	2° 0	2°43	8°59	14Δ13	12°51	20°47	8°26	T 2
F 3	21 21 1	18°52'07	21°55	0Ω20	13°31	5°32	14° 0	25°45	2° 3	2°44	9° 1	14° 8	12°48	20°54	8°31	F 3
S 4	21 24 58	19°49'54	6Ω33	1°25	14°45	6°10	13°58	25°49	2° 7	2°46	9° 3	14° 1	12°45	21° 1	8°37	S 4
S 5	21 28 55	20°47'44	21°30	2°37	16° 0	6°48	13°56	25°53	2°10	2°48	9° 4	13°52	12°42	21° 7	8°42	S 5
M 6	21 32 51	21°45'34	6Π39	3°54	17°14	7°27	13°54	25°58	2°14	2°50	9° 6	13°42	12°39	21°14	8°47	M 6
T 7	21 36 48	22°43'26	21°47	5°16	18°28	8° 5	13°51	26° 2	2°18	2°51	9° 8	13°33	12°35	21°21	8°52	T 7
W 8	21 40 44	23°41'19	6Δ46	6°44	19°42	8°43	13°49	26° 7	2°21	2°53	9°10	13°25	12°32	21°27	8°58	W 8
T 9	21 44 41	24°39'14	21°26	8°17	20°57	9°21	13°46	26°11	2°25	2°55	9°12	13°18	12°29	21°34	9° 3	T 9
F 10	21 48 37	25°37'10	5Π44	9°54	22°11	10° 0	13°43	26°16	2°28	2°57	9°13	13°15	12°26	21°41	9° 8	F 10
S 11	21 52 34	26°35'07	19°38	11°35	23°25	10°38	13°40	26°20	2°32	2°59	9°15	13°14	12°23	21°48	9°13	S 11
S 12	21 56 30	27°33'06	3♂ 7	13°19	24°40	11°17	13°37	26°25	2°35	3° 1	9°17	13°D13	12°20	21°54	9°18	S 12
M13	22 0 27	28°31'06	16°15	15° 6	25°54	11°55	13°33	26°30	2°38	3° 3	9°19	13°R14	12°16	22° 1	9°23	M13
T 14	22 4 24	29°29'07	29° 4	16°56	27° 9	12°33	13°30	26°35	2°42	3° 4	9°20	13°13	12°13	22° 8	9°27	T 14
W15	22 8 20	0Π27'10	11Ω39	18°48	28°23	13°12	13°26	26°40	2°45	3° 6	9°22	13°10	12°10	22°14	9°32	W15
T 16	22 12 17	1°25'14	24° 2	20°41	29°37	13°50	13°22	26°45	2°49	3° 8	9°24	13° 4	12° 7	22°21	9°37	T 16
F 17	22 16 13	2°23'20	6Δ15	22°36	0Π52	14°29	13°17	26°50	2°52	3°10	9°25	12°56	12° 4	22°28	9°42	F 17
S 18	22 20 10	3°21'27	18°22	24°31	2° 6	15° 7	13°13	26°55	2°55	3°12	9°27	12°45	12° 0	22°35	9°46	S 18
S 19	22 24 6	4°19'36	0Χ23	26°27	3°21	15°46	13° 8	27° 0	2°59	3°14	9°29	12°32	11°57	22°41	9°51	S 19
M20	22 28 3	5°17'47	12°19	28°23	4°35	16°25	13° 4	27° 5	3° 2	3°16	9°31	12°18	11°54	22°48	9°55	M20
T 21	22 31 59	6°15'59	24°12	0Π20	5°50	17° 3	12°59	27°11	3° 5	3°18	9°32	12° 4	11°51	22°55	10° 0	T 21
W22	22 35 56	7°14'14	6Y 4	2°16	7° 4	17°42	12°54	27°16	3° 8	3°20	9°34	11°51	11°48	23° 2	10° 4	W22
T 23	22 39 53	8°12'30	17°56	4°11	8°19	18°21	12°48	27°22	3°11	3°22	9°35	11°41	11°45	23° 8	10° 9	T 23
F 24	22 43 49	9°10'48	29°50	6° 6	9°34	18°59	12°43	27°27	3°15	3°24	9°37	11°34	11°41	23°15	10°13	F 24
S 25	22 47 46	10° 9'09	11Ω51	8° 1	10°48	19°38	12°37	27°33	3°18	3°27	9°39	11°29	11°38	23°22	10°17	S 25
S 26	22 51 42	11° 7'31	24° 3	9°54	12° 3	20°17	12°32	27°38	3°21	3°29	9°40	11°27	11°35	23°28	10°21	S 26
M27	22 55 39	12° 5'56	6Π29	11°47	13°17	20°56	12°26	27°44	3°24	3°31	9°42	11°26	11°32	23°35	10°25	M27
T 28	22 59 35	13° 4'23	19°15	13°39	14°32	21°35	12°20	27°50	3°27	3°33	9°44	11°26	11°29	23°42	10°29	T 28
W29	23 3 32	14° 2'52	2Ω25	15°30	15°47	22°13	12°14	27°55	3°30	3°35	9°45	11°26	11°26	23°49	10°33	W29
T 30	23 7 28	15° 1'23	16° 4	17°20	17° 1	22°52	12° 7	28° 1	3°33	3°37	9°47	11°23	11°22	23°55	10°37	T 30
F 31	23 11 25	15Π59'57	0Ω12	19Π 9	18Π16	23Π31	12°Y 1	28Δ 7	3Ω36	3Δ39	9Ω48	11Δ18	11Δ19	24Χ 2	10Ω41	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	decl	lat
W 1	15n48	22n31	0s52	19n16	1s17	18n34	1n 6	10n56	1n 2	4n 9	1s31	7s43	2n23	20n20	0n34	0n19	1n31	25n15	7n27	22s35	22s25	0n59	17n13	6s 3							
T 2	15 31	21 16	2 2	19 21	1 0	18 15	1 8	10 42	1 2	4 8	1 32	7 45	2 22	20 19	0 34	0 18	1 31	25 14	7 27	22 34	22 24	1 1	17 12	6 3							
F 3	15 13	18 39	3 6	19 25	0 44	17 55	1 9	10 27	1 1	4 7	1 32	7 46	2 22	20 18	0 34	0 18	1 31	25 14	7 27	22 34	22 24	1 4	17 11	6 3							
S 4	14 55	14 48	4 1	19 26	0 29	17 34	1 10	10 13	1 1	4 6	1 32	7 48	2 22	20 18	0 34	0 17	1 31	25 14	7 28	22 33	22 24	1 6	17 11	6 4							
S 5	14 36	9 57	4 40	19 25	0 14	17 14	1 12	9 58	1 0	4 5	1 33	7 50	2 22	20 17	0 34	0 16	1 31	25 13	7 28	22 32	22 23	1 9	17 10	6 4							
M 6	14 18	4 27	5 0	19 21	0n 0	16 52	1 13	9 44	1 0	4 4	1 33	7 52	2 21	20 16	0 34	0 16	1 31	25 13	7 28	22 31	22 23	1 11	17 9	6 5							
T 7	13 59	1s19	4 59	19 14	0 14	16 31	1 14	9 29	1 0	4 3	1 33	7 53	2 21	20 15	0 34	0 15	1 31	25 13	7 28	22 30	22 22	1 14	17 9	6 5							
W 8	13 40	6 56	4 38	19 4	0 27	16 8	1 15	9 15	0 59	4 2	1 33	7 55	2 21	20 14	0 34	0 14	1 31	25 12	7 28	22 29	22 22	1 16	17 8	6 5							
T 9	13 21	12 4	3 58	18 52	0 38	15 46	1 16	9 0	0 59	4 1	1 34	7 57	2 21	20 14	0 34	0 13	1 31	25 12	7 28	22 28	22 22	1 19	17 7	6 6							
F 10	13 1	16 23	3 5	18 37	0 49	15 22	1 17	8 45	0 59	3 59	1 34	7 59	2 21	20 13	0 34	0 13	1 31	25 11	7 28	22 27	22 21	1 21	17 6	6 6							
S 11	12 41	19 39	2 2	18 19	0 59	14 59	1 18	8 30	0 58	3 58	1 34	8 1	2 20	20 12	0 34	0 12	1 31	25 11	7 28	22 27	22 21	1 24	17 5	6 7							
S 12	12 22	21 43	0 53	17 58	1 8	14 35	1 19	8 15	0 58	3 56	1 34	8 3	2 20	20 11	0 34	0 11	1 31	25 11	7 28	22 27	22 20	1 26	17 5	6 7							
M13	12 1	22 32	0n16	17 34	1 16	14 10	1 20	8 0	0 58	3 55	1 35	8 5	2 20	20 11	0 34	0 10	1 31	25 10	7 29	22 27	22 20	1 29	17 4	6 8							
T 14	11 41	22 7	1 23	17 8	1 23	13 46	1 21	7 45	0 57	3 53	1 35	8 7	2 20	20 10	0 34	0 9	1 30	25 10	7 29	22 27	22 19	1 31	17 3	6 8							
W15	11 21	20 36	2 24	16 39	1 30	13 20	1 21	7 30	0 57	3 51	1 35	8 8	2 20	20 9	0 34	0 9	1 30	25 10	7 29	22 27	22 19	1 34	17 2	6 9							
T 16	11 0	18 7	3 18	16 8	1 35	12 55	1 22	7 15	0 57	3 50	1 35	8 10	2 19	20 8	0 34	0 8	1 30	25 9	7 29	22 26	22 19	1 37	17 2	6 9							
F 17	10 39	14 52	4 1	15 35	1 39	12 29	1 22	6 59	0 56	3 48	1 35	8 12	2 19	20 8	0 34	0 7	1 30	25 9	7 29	22 25	22 18	1 39	17 1	6 9							
S 18	10 18	11 2	4 33	15 0	1 42	12 3	1 23	6 44	0 56	3 46	1 36	8 15	2 19	20 7	0 34	0 6	1 30	25 9	7 29	22 24	22 18	1 42	17 0	6 10							
S 19	9 57	6 48	4 53	14 23	1 45	11 36	1 23	6 29	0 55	3 44	1 36	8 17	2 19	20 6	0 34	0 5	1 30	25 8	7 30	22 22	22 17	1 44	16 59	6 10							
M20	9 36	2 21	5 0	13 44	1 46	11 9	1 24	6 13	0 55	3 42	1 36	8 19	2 19	20 5	0 34	0 5	1 30	25 8	7 30	22 20	22 17	1 47	16 58	6 11							
T 21	9 14	2n10	4 53	13 4	1 47	10 42	1 24	5 58	0 55	3 40	1 36	8 21	2 18	20 5	0 34	0 4	1 30	25 8	7 30	22 18	22 17	1 49	16 57	6 11							
W22	8 53	6 36	4 34	12 22	1 48	10 15	1 24	5 43	0 54	3 38	1 37	8 23	2 18	20 4	0 34	0 3	1 30	25 7	7 30	22 17	22 16	1 51	16 57	6 12							
T 23	8 31	10 47	4 3	11 40	1 47	9 47	1 25	5 27	0 54	3 35	1 37	8 25	2 18	20 3	0 34	0 2	1 30	25 7	7 30	22 15	22 16	1 54	16 56	6 13							
F 24	8 9	14 35	3 21	10 56	1 46	9 19	1 25	5 11	0 54	3 33	1 37	8 27	2 18	20 2	0 34	0 1	1 30	25 7	7 30	22 14	22 15	1 56	16 55	6 13							
S 25	7 47	17 48	2 29	10 12	1 44	8 51	1 25	4 56	0 53	3 31	1 37	8 29	2 18	20 2	0 34	0 0	1 30	25 7	7 31	22 14	22 15	1 59	16 54	6 14							
S 26	7 25	20 18	1 31	9 27	1 42	8 22	1 25	4 40	0 53	3 28	1 37	8 31	2 18	20 1	0 34	0s 0	1 30	25 6	7 31	22 13	22 14	2 1	16 53	6 14							
M27	7 3	21 53	0 26	8 41	1 39	7 53	1 25	4 25	0 52	3 26	1 38	8 34	2 17	20 0	0 34	0 1	1 30	25 6	7 31	22 13	22 14	2 4	16 52	6 15							
T 28	6 40	22 23	0s41	7 55	1 36	7 24	1 25	4 9	0 52	3 23	1 38	8 36	2 17	20 0	0 34	0 2	1 30	25 6	7 31	22 13	22 13	2 6	16 52	6 15							
W29	6 18	21 41	1 49	7 9	1 32	6 55	1 24	3 53	0 52	3 21	1 38	8 38	2 17	19 59	0 34	0 3	1 30	25 5	7 31	22 13	22 13	2 9	16 51	6 16							
T 30	5 55	19 42	2 52	6 22	1 28	6 26	1 24	3 37	0 51	3 18	1 38	8 40	2 17	19 58	0 34	0 4	1 30	25 5	7 31	22 13	22 13	2 11	16 50	6 16							
F 31	5n32	16n28	3s47	5n35	1n24	5n56	1n24	3n21	0n51	3n15	1s38	8s42	2n17	19n58	0n34	0s 5	1n30	25n 5	7n32	22s12	22s12	2n14	16n49	6s17							

# ASTRODIENST EPHEMERIS for the year 1453

## geocentric

SEPTEMBER 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 15 22	16 <sup>h</sup> 58 <sup>m</sup> 32 <sup>s</sup>	14 <sup>h</sup> 48 <sup>m</sup>	20 <sup>h</sup> 57 <sup>m</sup>	19 <sup>h</sup> 31 <sup>m</sup>	24 <sup>h</sup> 10 <sup>m</sup>	11°R54	28 <sup>h</sup> 13 <sup>m</sup>	3 <sup>h</sup> 39 <sup>m</sup>	3 <sup>h</sup> 41 <sup>m</sup>	9 <sup>h</sup> 50 <sup>m</sup>	11°R11	11 <sup>h</sup> 16 <sup>m</sup>	24 <sup>h</sup> 9 <sup>m</sup>	10 <sup>h</sup> 45 <sup>m</sup>	S 1
S 2	23 19 18	17°57'10"	29°49'	22°44'	20°46'	24°49'	11°V48	28°19'	3°42'	3°44'	9°51'	11°R 1	11°13'	24°15'	10°48'	S 2
M 3	23 23 15	18°55'50"	15 <sup>h</sup> 4 <sup>m</sup>	24°30'	22° 0'	25°28'	11°41'	28°25'	3°45'	3°46'	9°53'	10°50'	11°10'	24°22'	10°52'	M 3
T 4	23 27 11	19°54'31"	0 <sup>h</sup> 25 <sup>m</sup>	26°15'	23°15'	26° 7'	11°34'	28°31'	3°48'	3°48'	9°54'	10°39'	11° 6'	24°29'	10°55'	T 4
W 5	23 31 8	20°53'15"	15°37'	27°59'	24°30'	26°46'	11°27'	28°37'	3°50'	3°50'	9°56'	10°29'	11° 3'	24°36'	10°59'	W 5
T 6	23 35 4	21°52'00"	0 <sup>h</sup> 33 <sup>m</sup>	29°42'	25°45'	27°26'	11°20'	28°44'	3°53'	3°52'	9°57'	10°22'	11° 0'	24°42'	11° 2'	T 6
F 7	23 39 1	22°50'48"	15° 3'	1 <sup>h</sup> 24 <sup>m</sup>	26°59'	28° 5'	11°13'	28°50'	3°56'	3°54'	9°59'	10°18'	10°57'	24°49'	11° 5'	F 7
S 8	23 42 57	23°49'37"	29° 6'	3° 5'	28°14'	28°44'	11° 5'	28°56'	3°59'	3°57'	10° 0'	10°16'	10°54'	24°56'	11° 9'	S 8
S 9	23 46 54	24°48'28"	12 <sup>h</sup> 7 <sup>m</sup> 41 <sup>s</sup>	4°45'	29°29'	29°23'	10°58'	29° 2'	4° 1'	3°59'	10° 1'	10°D16	10°51'	25° 2'	11°12'	S 9
M10	23 50 50	25°47'21"	25°50'	6°24'	0 <sup>h</sup> 44 <sup>m</sup>	0 <sup>h</sup> 2	10°50'	29° 9'	4° 4'	4° 1'	10° 3'	10°R16	10°47'	25° 9'	11°15'	M10
T 11	23 54 47	26°46'15"	8 <sup>h</sup> 36 <sup>m</sup>	8° 3'	1°59'	0°42'	10°43'	29°15'	4° 7'	4° 3'	10° 4'	10°15'	10°44'	25°16'	11°18'	T 11
W12	23 58 44	27°45'11"	21° 5'	9°40'	3°14'	1°21'	10°35'	29°22'	4° 9'	4° 6'	10° 5'	10°13'	10°41'	25°23'	11°21'	W12
T 13	0 2 40	28°44'09"	3 <sup>h</sup> 20 <sup>m</sup>	11°16'	4°28'	2° 0'	10°27'	29°28'	4°12'	4° 8'	10° 7'	10° 8'	10°38'	25°29'	11°24'	T 13
F 14	0 6 37	29°43'09"	15°26'	12°52'	5°43'	2°40'	10°19'	29°35'	4°14'	4°10'	10° 8'	10° 1'	10°35'	25°36'	11°26'	F 14
S 15	0 10 33	0 <sup>h</sup> 42 <sup>m</sup> 10 <sup>s</sup>	27°25'	14°27'	6°58'	3°19'	10°12'	29°41'	4°17'	4°12'	10° 9'	9°51'	10°32'	25°43'	11°29'	S 15
S 16	0 14 30	1°41'14"	9 <sup>h</sup> 20 <sup>m</sup>	16° 0'	8°13'	3°59'	10° 4'	29°48'	4°19'	4°14'	10°11'	9°39'	10°28'	25°50'	11°32'	S 16
M17	0 18 26	2°40'19"	21°13'	17°33'	9°28'	4°38'	9°56'	29°54'	4°21'	4°17'	10°12'	9°26'	10°25'	25°56'	11°34'	M17
T 18	0 22 23	3°39'27"	3 <sup>h</sup> 5 <sup>m</sup>	19° 6'	10°43'	5°18'	9°48'	0 <sup>h</sup> 1 <sup>m</sup>	4°24'	4°19'	10°13'	9°13'	10°22'	26° 3'	11°37'	T 18
W19	0 26 19	4°38'36"	14°58'	20°37'	11°57'	5°57'	9°40'	0° 8'	4°26'	4°21'	10°14'	9° 2'	10°19'	26°10'	11°39'	W19
T 20	0 30 16	5°37'48"	26°54'	22° 8'	13°12'	6°37'	9°32'	0°15'	4°28'	4°23'	10°15'	8°52'	10°16'	26°16'	11°41'	T 20
F 21	0 34 13	6°37'02"	8 <sup>h</sup> 54 <sup>m</sup>	23°38'	14°27'	7°17'	9°24'	0°21'	4°30'	4°26'	10°16'	8°46'	10°12'	26°23'	11°43'	F 21
S 22	0 38 9	7°36'18"	21° 1'	25° 7'	15°42'	7°56'	9°16'	0°28'	4°32'	4°28'	10°18'	8°42'	10° 9'	26°30'	11°45'	S 22
S 23	0 42 6	8°35'36"	3 <sup>h</sup> 17 <sup>m</sup>	26°35'	16°57'	8°36'	9° 7'	0°35'	4°34'	4°30'	10°19'	8°D40	10° 6'	26°37'	11°47'	S 23
M24	0 46 2	9°34'57"	15°46'	28° 2'	18°12'	9°16'	8°59'	0°42'	4°36'	4°32'	10°20'	8°40'	10° 3'	26°43'	11°49'	M24
T 25	0 49 59	10°34'20"	28°32'	29°29'	19°27'	9°55'	8°51'	0°49'	4°38'	4°35'	10°21'	8°41'	10° 0'	26°50'	11°51'	T 25
W26	0 53 55	11°33'45"	11 <sup>h</sup> 38 <sup>m</sup>	0 <sup>h</sup> 54 <sup>m</sup>	20°42'	10°35'	8°43'	0°55'	4°40'	4°37'	10°22'	8°R41	9°57'	26°57'	11°53'	W26
T 27	0 57 52	12°33'13"	25° 9'	2°19'	21°57'	11°15'	8°35'	1° 2'	4°42'	4°39'	10°23'	8°40'	9°53'	27° 3'	11°54'	T 27
F 28	1 1 48	13°32'43"	9 <sup>h</sup> 6 <sup>m</sup>	3°43'	23°12'	11°55'	8°27'	1° 9'	4°44'	4°41'	10°24'	8°38'	9°50'	27°10'	11°56'	F 28
S 29	1 5 45	14°32'16"	23°30'	5° 6'	24°26'	12°35'	8°19'	1°16'	4°46'	4°43'	10°25'	8°33'	9°47'	27°17'	11°57'	S 29
S 30	1 9 42	15 <sup>h</sup> 31 <sup>m</sup> 50 <sup>s</sup>	8 <sup>h</sup> 18 <sup>m</sup>	6 <sup>h</sup> 28 <sup>m</sup>	25 <sup>h</sup> 41 <sup>m</sup>	13 <sup>h</sup> 15 <sup>m</sup>	8°V11	1 <sup>h</sup> 23 <sup>m</sup>	4 <sup>h</sup> 48 <sup>m</sup>	4 <sup>h</sup> 46 <sup>m</sup>	10 <sup>h</sup> 26 <sup>m</sup>	8 <sup>h</sup> 26 <sup>m</sup>	9 <sup>h</sup> 44 <sup>m</sup>	27 <sup>h</sup> 24 <sup>m</sup>	11 <sup>h</sup> 59 <sup>m</sup>	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	5n 9	12n 8	4s30	4n48	1n19	5n26	1n23	3n 6	0n50	3n13	1s38	8s45	2n17	19n57	0n34	S 1
S 2	4 47	6 58	4 55	4 1	1 14	4 57	1 23	2 50	0 50	3 10	1 38	8 47	2 16	19 56	0 34	S 2
M 3	4 24	1 17	5 0	3 14	1 9	4 26	1 22	2 34	0 50	3 7	1 39	8 49	2 16	19 56	0 34	M 3
T 4	4 0	4s29	4 43	2 27	1 3	3 56	1 22	2 18	0 49	3 4	1 39	8 52	2 16	19 55	0 34	T 4
W 5	3 37	9 57	4 6	1 41	0 57	3 26	1 21	2 2	0 49	3 2	1 39	8 54	2 16	19 54	0 34	W 5
T 6	3 14	14 43	3 14	0 54	0 51	2 56	1 20	1 46	0 48	2 59	1 39	8 56	2 16	19 54	0 34	T 6
F 7	2 51	18 27	2 9	0 8	0 45	2 25	1 20	1 30	0 48	2 56	1 39	8 59	2 16	19 53	0 34	F 7
S 8	2 28	20 58	0 59	0s39	0 38	1 54	1 19	1 14	0 48	2 53	1 39	9 1	2 16	19 52	0 34	S 8
S 9	2 4	22 10	0n13	1 24	0 32	1 24	1 18	0 58	0 47	2 50	1 39	9 3	2 15	19 52	0 34	S 9
M10	1 41	22 5	1 22	2 10	0 25	0 53	1 17	0 42	0 47	2 47	1 39	9 6	2 15	19 51	0 34	M10
T 11	1 17	20 50	2 24	2 55	0 18	0 22	1 16	0 26	0 46	2 44	1 39	9 8	2 15	19 51	0 35	T 11
W12	0 54	18 35	3 18	3 40	0 11	0s 8	1 15	0 10	0 46	2 41	1 40	9 10	2 15	19 50	0 35	W12
T 13	0 30	15 32	4 2	4 24	0 4	0 39	1 14	0s 6	0 46	2 37	1 40	9 13	2 15	19 50	0 35	T 13
F 14	0 7	11 53	4 35	5 8	0s 3	1 10	1 13	0 22	0 45	2 34	1 40	9 15	2 15	19 49	0 35	F 14
S 15	0s17	7 47	4 55	5 51	0 10	1 41	1 11	0 38	0 45	2 31	1 40	9 18	2 15	19 48	0 35	S 15
S 16	0 40	3 26	5 2	6 34	0 17	2 12	1 10	0 55	0 44	2 28	1 40	9 20	2 15	19 48	0 35	S 16
M17	1 4	1n 2	4 55	7 17	0 24	2 42	1 9	1 11	0 44	2 25	1 40	9 22	2 14	19 47	0 35	M17
T 18	1 27	5 27	4 36	7 59	0 31	3 13	1 7	1 27	0 43	2 22	1 40	9 25	2 14	19 47	0 35	T 18
W19	1 51	9 41	4 5	8 40	0 38	3 44	1 6	1 43	0 43	2 19	1 40	9 27	2 14	19 46	0 35	W19
T 20	2 15	13 33	3 23	9 21	0 45	4 15	1 4	1 59	0 43	2 15	1 40	9 30	2 14	19 46	0 35	T 20
F 21	2 38	16 54	2 32	10 1	0 53	4 45	1 3	2 15	0 42	2 12	1 40	9 32	2 14	19 45	0 35	F 21
S 22	3 2	19 33	1 33	10 40	1 0	5 15	1 1	2 31	0 42	2 9	1 40	9 35	2 14	19 45	0 35	S 22
S 23	3 25	21 21	0 29	11 19	1 7	5 46	0 59	2 47	0 41	2 6	1 40	9 37	2 14	19 44	0 35	S 23
M24	3 48	22 7	0s38	11 57	1 14	6 16	0 58	3 3	0 41	2 3	1 40	9 40	2 14	19 44	0 35	M24
T 25	4 12	21 46	1 44	12 34	1 20	6 46	0 56	3 19	0 40	1 59	1 40	9 42	2 14	19 43	0 35	T 25
W26	4 35	20 13	2 47	13 11	1 27	7 16	0 54	3 36	0 40	1 56	1 40	9 45	2 14	19 43	0 35	W26
T 27	4 58	17 31	3 43	13 47	1 34	7 46	0 52	3 52	0 39	1 53	1 40	9 47	2 14	19 43	0 35	T 27
F 28	5 22	13 44	4 27	14 22	1 41	8 16	0 50	4 8	0 39	1 50	1 40	9 49	2 13	19 42	0 35	F 28
S 29	5 45	9 4	4 56	14 56	1 47	8 45	0 48	4 24	0 38	1 47	1 40	9 52	2 13	19 42	0 35	S 29
S 30	6s 8	3n45	5s 6	15s30	1s53	9s14	0n46	4s40	0n38	1n44	1s40	9s54	2n13	19n41	0n35	S 30

Julian Day Number = 2252009.5, Delta T = 06m23s

Ecliptic obliquity = 23°30'35", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'06", Lahiri = 16°14'06" Julian Calendar 1 Sept. 1453 == Greg. Calendar 10 Sept. 1453

# ASTRODIENST EPHEMERIS for the year 1453

## geocentric

OCTOBER 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	1 13 38	16♌31'27	23♍23	7♍50	26♌56	13♌55	8°R 3	1♍30	4♌50	4♌48	10♌27	8°R18	9♌41	27♍30	12♌0	M 1
T 2	1 17 35	17°31'06	8♌37	9°10	28°11	14°35	7°V55	1°37	4°51	4°50	10°28	8°R10	9°37	27°37	12° 1	T 2
W 3	1 21 31	18°30'47	23°49	10°28	29°26	15°15	7°47	1°44	4°53	4°52	10°28	8° 3	9°34	27°44	12° 2	W 3
T 4	1 25 28	19°30'31	8♍48	11°46	0♍41	15°55	7°40	1°51	4°54	4°54	10°29	7°58	9°31	27°50	12° 3	T 4
F 5	1 29 24	20°30'16	23°26	13° 3	1°56	16°35	7°32	1°59	4°56	4°57	10°30	7°55	9°28	27°57	12° 4	F 5
S 6	1 33 21	21°30'03	7♌38	14°18	3°11	17°15	7°24	2° 6	4°57	4°59	10°31	7°D54	9°25	28° 4	12° 5	S 6
S 7	1 37 17	22°29'52	21°21	15°31	4°26	17°56	7°17	2°13	4°59	5° 1	10°32	7°55	9°22	28°11	12° 6	S 7
M 8	1 41 14	23°29'42	4♌37	16°43	5°41	18°36	7° 9	2°20	5° 0	5° 3	10°32	7°56	9°18	28°17	12° 7	M 8
T 9	1 45 11	24°29'34	17°28	17°53	6°56	19°16	7° 2	2°27	5° 1	5° 5	10°33	7°57	9°15	28°24	12° 7	T 9
W10	1 49 7	25°29'28	29°59	19° 1	8°11	19°56	6°55	2°34	5° 3	5° 7	10°34	7°R57	9°12	28°31	12° 8	W10
T11	1 53 4	26°29'24	12♌14	20° 7	9°26	20°37	6°47	2°41	5° 4	5° 9	10°35	7°56	9° 9	28°37	12° 8	T11
F12	1 57 0	27°29'21	24°17	21°10	10°41	21°17	6°40	2°48	5° 5	5°12	10°35	7°52	9° 6	28°44	12° 8	F12
S13	2 0 57	28°29'20	6♌12	22°11	11°56	21°58	6°33	2°56	5° 6	5°14	10°36	7°47	9° 3	28°51	12° 8	S13
S14	2 4 53	29°29'20	18° 5	23° 9	13°11	22°38	6°26	3° 3	5° 7	5°16	10°36	7°41	8°59	28°58	12°R 8	S14
M15	2 8 50	0♍29'23	29°57	24° 3	14°26	23°19	6°20	3°10	5° 8	5°18	10°37	7°34	8°56	29° 4	12° 8	M15
T16	2 12 46	1°29'27	11°V50	24°54	15°41	23°59	6°13	3°17	5° 9	5°20	10°37	7°27	8°53	29°11	12° 8	T16
W17	2 16 43	2°29'32	23°48	25°40	16°55	24°40	6° 7	3°24	5°10	5°22	10°38	7°20	8°50	29°18	12° 8	W17
T18	2 20 39	3°29'40	5♌52	26°22	18°10	25°20	6° 0	3°31	5°11	5°24	10°38	7°15	8°47	29°24	12° 8	T18
F19	2 24 36	4°29'50	18° 3	26°59	19°25	26° 1	5°54	3°39	5°12	5°26	10°39	7°12	8°43	29°31	12° 7	F19
S20	2 28 33	5°30'01	0♍22	27°30	20°40	26°42	5°48	3°46	5°12	5°28	10°39	7°10	8°40	29°38	12° 7	S20
S21	2 32 29	6°30'14	12°51	27°54	21°55	27°22	5°42	3°53	5°13	5°30	10°40	7°D10	8°37	29°45	12° 6	S21
M22	2 36 26	7°30'30	25°32	28°12	23°10	28° 3	5°36	4° 0	5°14	5°32	10°40	7°11	8°34	29°51	12° 6	M22
T23	2 40 22	8°30'47	8♌38	28°22	24°25	28°44	5°31	4° 7	5°14	5°34	10°40	7°13	8°31	29°58	12° 5	T23
W24	2 44 19	9°31'07	21°39	28°R23	25°40	29°25	5°25	4°14	5°15	5°36	10°41	7°15	8°28	0°V 5	12° 4	W24
T25	2 48 15	10°31'28	5♌ 9	28°16	26°55	0♍ 6	5°20	4°22	5°15	5°38	10°41	7°R15	8°24	0°11	12° 3	T25
F26	2 52 12	11°31'51	18°58	27°58	28°10	0°47	5°15	4°29	5°16	5°40	10°41	7°15	8°21	0°18	12° 2	F26
S27	2 56 8	12°32'16	3♍ 8	27°31	29°25	1°28	5°10	4°36	5°16	5°42	10°41	7°14	8°18	0°25	12° 1	S27
S28	3 0 5	13°32'44	17°35	26°54	0♌40	2° 9	5° 5	4°43	5°16	5°43	10°41	7°12	8°15	0°32	12° 0	S28
M29	3 4 2	14°33'13	2♌18	26° 6	1°55	2°50	5° 1	4°50	5°17	5°45	10°42	7° 9	8°12	0°38	11°58	M29
T30	3 7 58	15°33'44	17°10	25° 9	3°10	3°31	4°56	4°57	5°17	5°47	10°42	7° 6	8° 9	0°45	11°57	T30
W31	3 11 55	16♍34'16	2♍ 3	24♍ 4	4♌24	4♍12	4°V52	5♍ 4	5°D17	5♌49	10°D42	7♌ 3	8♌ 5	0°V52	11°D56	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	6s31	1s54	4s56	16s 2	1s59	9s43	0n44	4s56	0n38	1n41	1s39	9s57	2n13	19n41	0n35	0s32
T 2	6 54	7 28	4 25	16 34	2 5	10 12	0 42	5 12	0 37	1 38	1 39	9 59	2 13	19 41	0 35	0 33
W 3	7 17	12 35	3 35	17 5	2 11	10 41	0 40	5 28	0 37	1 35	1 39	10 2	2 13	19 40	0 35	0 34
T 4	7 39	16 51	2 30	17 34	2 16	11 9	0 38	5 44	0 36	1 32	1 39	10 4	2 13	19 40	0 35	0 34
F 5	8 2	19 56	1 17	18 3	2 22	11 37	0 36	5 59	0 36	1 29	1 39	10 7	2 13	19 40	0 35	0 35
S 6	8 24	21 40	0 1	18 30	2 27	12 5	0 34	6 15	0 35	1 26	1 39	10 9	2 13	19 39	0 35	0 36
S 7	8 47	22 2	1n12	18 57	2 31	12 33	0 31	6 31	0 35	1 23	1 39	10 12	2 13	19 39	0 35	0 37
M 8	9 9	21 6	2 19	19 22	2 36	13 0	0 29	6 47	0 34	1 20	1 39	10 14	2 13	19 39	0 35	0 38
T 9	9 31	19 6	3 18	19 46	2 40	13 27	0 27	7 3	0 34	1 17	1 39	10 17	2 13	19 38	0 35	0 39
W10	9 53	16 14	4 5	20 8	2 43	13 53	0 25	7 18	0 33	1 15	1 38	10 19	2 13	19 38	0 36	0 39
T11	10 15	12 42	4 39	20 30	2 46	14 19	0 22	7 34	0 33	1 12	1 38	10 22	2 13	19 38	0 36	0 40
F12	10 37	8 44	5 1	20 49	2 49	14 45	0 20	7 50	0 32	1 9	1 38	10 24	2 13	19 38	0 36	0 41
S13	10 58	4 28	5 10	21 7	2 51	15 11	0 18	8 5	0 32	1 7	1 38	10 27	2 13	19 37	0 36	0 42
S14	11 19	0 3	5 5	21 24	2 53	15 36	0 15	8 21	0 31	1 4	1 38	10 29	2 13	19 37	0 36	0 43
M15	11 41	4n22	4 47	21 39	2 54	16 1	0 13	8 36	0 31	1 2	1 38	10 32	2 13	19 37	0 36	0 43
T16	12 2	8 37	4 16	21 51	2 54	16 25	0 10	8 52	0 30	0 59	1 37	10 34	2 13	19 37	0 36	0 44
W17	12 22	12 35	3 34	22 2	2 54	16 49	0 8	9 7	0 30	0 57	1 37	10 37	2 13	19 37	0 36	0 45
T18	12 43	16 4	2 43	22 11	2 52	17 12	0 5	9 23	0 29	0 54	1 37	10 39	2 13	19 36	0 36	0 46
F19	13 3	18 54	1 43	22 18	2 50	17 35	0 3	9 38	0 29	0 52	1 37	10 41	2 12	19 36	0 36	0 47
S20	13 24	20 54	0 37	22 22	2 47	17 58	0 0	9 53	0 28	0 50	1 37	10 44	2 12	19 36	0 36	0 47
S21	13 44	21 54	0s31	22 23	2 42	18 20	0s 2	10 8	0 28	0 48	1 36	10 46	2 12	19 36	0 36	0 48
M22	14 3	21 47	1 39	22 22	2 37	18 42	0 5	10 23	0 27	0 46	1 36	10 49	2 12	19 36	0 36	0 49
T23	14 23	20 31	2 43	22 17	2 30	19 3	0 7	10 38	0 27	0 44	1 36	10 51	2 12	19 36	0 36	0 50
W24	14 42	18 8	3 40	22 9	2 21	19 23	0 10	10 53	0 26	0 42	1 36	10 54	2 12	19 36	0 36	0 50
T25	15 1	14 44	4 26	21 58	2 12	19 43	0 12	11 8	0 26	0 40	1 36	10 56	2 12	19 36	0 36	0 51
F26	15 20	10 27	4 59	21 43	2 0	20 3	0 15	11 23	0 25	0 38	1 35	10 58	2 12	19 36	0 36	0 52
S27	15 39	5 31	5 14	21 24	1 47	20 22	0 17	11 38	0 25	0 36	1 35	11 1	2 12	19 36	0 36	0 52
S28	15 57	0 10	5 9	21 1	1 32	20 40	0 20	11 53	0 24	0 35	1 35	11 3	2 13	19 36	0 36	0 53
M29	16 15	5s16	4 45	20 34	1 16	20 58	0 22	12 7	0 23	0 33	1 35	11 5	2 13	19 35	0 36	0 54
T30	16 33	10 28	4 1	20 3	0 58	21 15	0 25	12 22	0 23	0 31	1 34	11 8	2 13	19 35	0 36	0 55
W31	16s50	15s 3	3s 1	19s29	0s39	21s32	0s27	12s36	0n22	0n30	1s34	11s10	2n13	19n36	0n36	0s55

Julian Day Number = 2252039.5, Delta T = 06m23s

Ecliptic obliquity = 23°30'34", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'10", Lahiri = 16°14'10" Julian Calendar 1 Oct. 1453 == Greg. Calendar 10 Oct. 1453

ASTRODIENST EPHEMERIS for the year 1453  
geocentric

NOVEMBER 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 15 51	17 <sup>11</sup> 34'51	16 <sup>11</sup> 49	22 <sup>11</sup> 51	5 <sup>11</sup> 39	4 <sup>11</sup> 53	4 <sup>11</sup> 48	5 <sup>11</sup> 11	5 <sup>11</sup> 17	5 <sup>11</sup> 51	10 <sup>11</sup> 42	7 <sup>11</sup> 01	8 <sup>11</sup> 2	0 <sup>11</sup> 58	11 <sup>11</sup> 54	T 1
F 2	3 19 48	18 <sup>11</sup> 35'27	1 <sup>11</sup> 20	21 <sup>11</sup> 33	6 <sup>11</sup> 54	5 <sup>11</sup> 35	4 <sup>11</sup> 44	5 <sup>11</sup> 18	5 <sup>11</sup> 17	5 <sup>11</sup> 52	10 <sup>11</sup> 42	7 <sup>11</sup> 00	7 <sup>11</sup> 59	1 <sup>11</sup> 5	11 <sup>11</sup> 52	F 2
S 3	3 23 44	19 <sup>11</sup> 36'04	15 <sup>11</sup> 31	20 <sup>11</sup> 12	8 <sup>11</sup> 9	6 <sup>11</sup> 16	4 <sup>11</sup> 41	5 <sup>11</sup> 26	5 <sup>11</sup> 17	5 <sup>11</sup> 54	10 <sup>11</sup> 42	7 <sup>11</sup> 00	7 <sup>11</sup> 56	1 <sup>11</sup> 12	11 <sup>11</sup> 51	S 3
S 4	3 27 41	20 <sup>11</sup> 36'43	29 <sup>11</sup> 18	18 <sup>11</sup> 50	9 <sup>11</sup> 24	6 <sup>11</sup> 57	4 <sup>11</sup> 37	5 <sup>11</sup> 33	5 <sup>11</sup> 17	5 <sup>11</sup> 56	10 <sup>11</sup> 42	7 <sup>11</sup> 01	7 <sup>11</sup> 53	1 <sup>11</sup> 19	11 <sup>11</sup> 49	S 4
M 5	3 31 37	21 <sup>11</sup> 37'23	12 <sup>11</sup> 30	17 <sup>11</sup> 31	10 <sup>11</sup> 39	7 <sup>11</sup> 38	4 <sup>11</sup> 34	5 <sup>11</sup> 40	5 <sup>11</sup> 17	5 <sup>11</sup> 58	10 <sup>11</sup> 42	7 <sup>11</sup> 02	7 <sup>11</sup> 49	1 <sup>11</sup> 25	11 <sup>11</sup> 47	M 5
T 6	3 35 34	22 <sup>11</sup> 38'05	25 <sup>11</sup> 37	16 <sup>11</sup> 18	11 <sup>11</sup> 54	8 <sup>11</sup> 20	4 <sup>11</sup> 31	5 <sup>11</sup> 47	5 <sup>11</sup> 16	5 <sup>11</sup> 59	10 <sup>11</sup> 42	7 <sup>11</sup> 04	7 <sup>11</sup> 46	1 <sup>11</sup> 32	11 <sup>11</sup> 45	T 6
W 7	3 39 31	23 <sup>11</sup> 38'47	8 <sup>11</sup> 13	15 <sup>11</sup> 11	13 <sup>11</sup> 9	9 <sup>11</sup> 1	4 <sup>11</sup> 28	5 <sup>11</sup> 54	5 <sup>11</sup> 16	6 <sup>11</sup> 1	10 <sup>11</sup> 42	7 <sup>11</sup> 05	7 <sup>11</sup> 43	1 <sup>11</sup> 39	11 <sup>11</sup> 43	W 7
T 8	3 43 27	24 <sup>11</sup> 39'30	20 <sup>11</sup> 31	14 <sup>11</sup> 14	14 <sup>11</sup> 24	9 <sup>11</sup> 43	4 <sup>11</sup> 25	6 <sup>11</sup> 0	5 <sup>11</sup> 16	6 <sup>11</sup> 3	10 <sup>11</sup> 42	7 <sup>11</sup> 05	7 <sup>11</sup> 40	1 <sup>11</sup> 45	11 <sup>11</sup> 41	T 8
F 9	3 47 24	25 <sup>11</sup> 40'15	2 <sup>11</sup> 36	13 <sup>11</sup> 28	15 <sup>11</sup> 39	10 <sup>11</sup> 24	4 <sup>11</sup> 23	6 <sup>11</sup> 7	5 <sup>11</sup> 15	6 <sup>11</sup> 4	10 <sup>11</sup> 41	7 <sup>11</sup> 05	7 <sup>11</sup> 37	1 <sup>11</sup> 52	11 <sup>11</sup> 38	F 9
S 10	3 51 20	26 <sup>11</sup> 41'00	14 <sup>11</sup> 32	12 <sup>11</sup> 52	16 <sup>11</sup> 53	11 <sup>11</sup> 6	4 <sup>11</sup> 21	6 <sup>11</sup> 14	5 <sup>11</sup> 15	6 <sup>11</sup> 6	10 <sup>11</sup> 41	7 <sup>11</sup> 04	7 <sup>11</sup> 34	1 <sup>11</sup> 59	11 <sup>11</sup> 36	S 10
S 11	3 55 17	27 <sup>11</sup> 41'47	26 <sup>11</sup> 24	12 <sup>11</sup> 29	18 <sup>11</sup> 8	11 <sup>11</sup> 47	4 <sup>11</sup> 18	6 <sup>11</sup> 21	5 <sup>11</sup> 14	6 <sup>11</sup> 7	10 <sup>11</sup> 41	7 <sup>11</sup> 03	7 <sup>11</sup> 30	2 <sup>11</sup> 6	11 <sup>11</sup> 34	S 11
M 12	3 59 13	28 <sup>11</sup> 42'35	8 <sup>11</sup> 16	12 <sup>11</sup> 16	19 <sup>11</sup> 23	12 <sup>11</sup> 29	4 <sup>11</sup> 17	6 <sup>11</sup> 28	5 <sup>11</sup> 14	6 <sup>11</sup> 9	10 <sup>11</sup> 41	7 <sup>11</sup> 02	7 <sup>11</sup> 27	2 <sup>11</sup> 12	11 <sup>11</sup> 31	M 12
T 13	4 3 10	29 <sup>11</sup> 43'23	20 <sup>11</sup> 12	12 <sup>11</sup> 01	20 <sup>11</sup> 38	13 <sup>11</sup> 11	4 <sup>11</sup> 15	6 <sup>11</sup> 35	5 <sup>11</sup> 13	6 <sup>11</sup> 10	10 <sup>11</sup> 41	7 <sup>11</sup> 01	7 <sup>11</sup> 24	2 <sup>11</sup> 19	11 <sup>11</sup> 28	T 13
W 14	4 7 6	0 <sup>11</sup> 44'13	2 <sup>11</sup> 15	12 <sup>11</sup> 24	21 <sup>11</sup> 53	13 <sup>11</sup> 52	4 <sup>11</sup> 14	6 <sup>11</sup> 42	5 <sup>11</sup> 13	6 <sup>11</sup> 12	10 <sup>11</sup> 40	7 <sup>11</sup> 00	7 <sup>11</sup> 21	2 <sup>11</sup> 26	11 <sup>11</sup> 26	W 14
T 15	4 11 3	1 <sup>11</sup> 45'04	14 <sup>11</sup> 27	12 <sup>11</sup> 43	23 <sup>11</sup> 8	14 <sup>11</sup> 34	4 <sup>11</sup> 12	6 <sup>11</sup> 48	5 <sup>11</sup> 12	6 <sup>11</sup> 13	10 <sup>11</sup> 40	7 <sup>11</sup> 00	7 <sup>11</sup> 18	2 <sup>11</sup> 32	11 <sup>11</sup> 23	T 15
F 16	4 15 0	2 <sup>11</sup> 45'56	26 <sup>11</sup> 51	13 <sup>11</sup> 11	24 <sup>11</sup> 23	15 <sup>11</sup> 16	4 <sup>11</sup> 11	6 <sup>11</sup> 55	5 <sup>11</sup> 11	6 <sup>11</sup> 15	10 <sup>11</sup> 40	6 <sup>11</sup> 59	7 <sup>11</sup> 14	2 <sup>11</sup> 39	11 <sup>11</sup> 20	F 16
S 17	4 18 56	3 <sup>11</sup> 46'49	9 <sup>11</sup> 12	13 <sup>11</sup> 47	25 <sup>11</sup> 37	15 <sup>11</sup> 57	4 <sup>11</sup> 11	7 <sup>11</sup> 2	5 <sup>11</sup> 10	6 <sup>11</sup> 16	10 <sup>11</sup> 39	6 <sup>11</sup> 59	7 <sup>11</sup> 11	2 <sup>11</sup> 46	11 <sup>11</sup> 17	S 17
S 18	4 22 53	4 <sup>11</sup> 47'43	22 <sup>11</sup> 17	14 <sup>11</sup> 29	26 <sup>11</sup> 52	16 <sup>11</sup> 39	4 <sup>11</sup> 10	7 <sup>11</sup> 8	5 <sup>11</sup> 10	6 <sup>11</sup> 18	10 <sup>11</sup> 39	6 <sup>11</sup> 59	7 <sup>11</sup> 8	2 <sup>11</sup> 52	11 <sup>11</sup> 14	S 18
M 19	4 26 49	5 <sup>11</sup> 48'38	5 <sup>11</sup> 20	15 <sup>11</sup> 18	28 <sup>11</sup> 7	17 <sup>11</sup> 21	4 <sup>11</sup> 10	7 <sup>11</sup> 15	5 <sup>11</sup> 9	6 <sup>11</sup> 19	10 <sup>11</sup> 38	6 <sup>11</sup> 59	7 <sup>11</sup> 5	2 <sup>11</sup> 59	11 <sup>11</sup> 11	M 19
T 20	4 30 46	6 <sup>11</sup> 49'35	18 <sup>11</sup> 36	16 <sup>11</sup> 13	29 <sup>11</sup> 22	18 <sup>11</sup> 3	4 <sup>11</sup> 09	7 <sup>11</sup> 22	5 <sup>11</sup> 8	6 <sup>11</sup> 20	10 <sup>11</sup> 38	6 <sup>11</sup> 59	7 <sup>11</sup> 2	3 <sup>11</sup> 6	11 <sup>11</sup> 8	T 20
W 21	4 34 42	7 <sup>11</sup> 50'32	2 <sup>11</sup> 15	17 <sup>11</sup> 12	0 <sup>11</sup> 37	18 <sup>11</sup> 45	4 <sup>11</sup> 9	7 <sup>11</sup> 28	5 <sup>11</sup> 7	6 <sup>11</sup> 21	10 <sup>11</sup> 37	6 <sup>11</sup> 59	6 <sup>11</sup> 59	3 <sup>11</sup> 13	11 <sup>11</sup> 5	W 21
T 22	4 38 39	8 <sup>11</sup> 51'31	15 <sup>11</sup> 46	18 <sup>11</sup> 15	1 <sup>11</sup> 51	19 <sup>11</sup> 27	4 <sup>11</sup> 10	7 <sup>11</sup> 35	5 <sup>11</sup> 6	6 <sup>11</sup> 23	10 <sup>11</sup> 37	6 <sup>11</sup> 59	6 <sup>11</sup> 55	3 <sup>11</sup> 19	11 <sup>11</sup> 2	T 22
F 23	4 42 36	9 <sup>11</sup> 52'31	29 <sup>11</sup> 39	19 <sup>11</sup> 22	3 <sup>11</sup> 6	20 <sup>11</sup> 9	4 <sup>11</sup> 10	7 <sup>11</sup> 41	5 <sup>11</sup> 4	6 <sup>11</sup> 24	10 <sup>11</sup> 36	6 <sup>11</sup> 59	6 <sup>11</sup> 52	3 <sup>11</sup> 26	10 <sup>11</sup> 59	F 23
S 24	4 46 32	10 <sup>11</sup> 53'32	13 <sup>11</sup> 14	20 <sup>11</sup> 32	4 <sup>11</sup> 21	20 <sup>11</sup> 51	4 <sup>11</sup> 11	7 <sup>11</sup> 48	5 <sup>11</sup> 3	6 <sup>11</sup> 25	10 <sup>11</sup> 36	6 <sup>11</sup> 59	6 <sup>11</sup> 49	3 <sup>11</sup> 33	10 <sup>11</sup> 55	S 24
S 25	4 50 29	11 <sup>11</sup> 54'34	27 <sup>11</sup> 55	21 <sup>11</sup> 45	5 <sup>11</sup> 36	21 <sup>11</sup> 33	4 <sup>11</sup> 12	7 <sup>11</sup> 54	5 <sup>11</sup> 2	6 <sup>11</sup> 26	10 <sup>11</sup> 35	6 <sup>11</sup> 59	6 <sup>11</sup> 46	3 <sup>11</sup> 39	10 <sup>11</sup> 52	S 25
M 26	4 54 25	12 <sup>11</sup> 55'37	12 <sup>11</sup> 15	23 <sup>11</sup> 1	6 <sup>11</sup> 50	22 <sup>11</sup> 16	4 <sup>11</sup> 13	8 <sup>11</sup> 0	5 <sup>11</sup> 1	6 <sup>11</sup> 28	10 <sup>11</sup> 35	7 <sup>11</sup> 0	6 <sup>11</sup> 43	3 <sup>11</sup> 46	10 <sup>11</sup> 49	M 26
T 27	4 58 22	13 <sup>11</sup> 56'41	26 <sup>11</sup> 39	24 <sup>11</sup> 18	8 <sup>11</sup> 5	22 <sup>11</sup> 58	4 <sup>11</sup> 14	8 <sup>11</sup> 7	5 <sup>11</sup> 0	6 <sup>11</sup> 29	10 <sup>11</sup> 34	7 <sup>11</sup> 0	6 <sup>11</sup> 40	3 <sup>11</sup> 53	10 <sup>11</sup> 45	T 27
W 28	5 2 18	14 <sup>11</sup> 57'47	11 <sup>11</sup> 3	25 <sup>11</sup> 37	9 <sup>11</sup> 20	23 <sup>11</sup> 40	4 <sup>11</sup> 15	8 <sup>11</sup> 13	4 <sup>11</sup> 58	6 <sup>11</sup> 30	10 <sup>11</sup> 33	7 <sup>11</sup> 1	6 <sup>11</sup> 36	4 <sup>11</sup> 0	10 <sup>11</sup> 41	W 28
T 29	5 6 15	15 <sup>11</sup> 58'53	25 <sup>11</sup> 22	26 <sup>11</sup> 58	10 <sup>11</sup> 34	24 <sup>11</sup> 22	4 <sup>11</sup> 17	8 <sup>11</sup> 19	4 <sup>11</sup> 57	6 <sup>11</sup> 31	10 <sup>11</sup> 32	7 <sup>11</sup> 1	6 <sup>11</sup> 33	4 <sup>11</sup> 6	10 <sup>11</sup> 38	T 29
F 30	5 10 11	17 <sup>11</sup> 00'00	9 <sup>11</sup> 31	28 <sup>11</sup> 12	11 <sup>11</sup> 34	25 <sup>11</sup> 15	4 <sup>11</sup> 19	8 <sup>11</sup> 25	4 <sup>11</sup> 55	6 <sup>11</sup> 32	10 <sup>11</sup> 32	7 <sup>11</sup> 0	6 <sup>11</sup> 30	4 <sup>11</sup> 13	10 <sup>11</sup> 34	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	decl	lat
T 1	17s 8	18s39	1s49	18s51	0s19	21s48	0s30	12s51	0n22	0n29	1s34	11s12	2n13	19n36	0n36	0s56	1n31	25n 5	7n48	21s33	21s43	4n44	16n 3	6s57	
F 2	17 24	21 0	0 31	18 11	0n 1	22 3	0 32	13 5	0 21	0 27	1 34	11 15	2 13	19 36	0 36	0 57	1 31	25 5	7 48	21 33	21 42	4 46	16 2	6 58	
S 3	17 41	21 57	0n47	17 30	0 22	22 18	0 35	13 19	0 21	0 26	1 33	11 17	2 13	19 36	0 36	0 57	1 31	25 6	7 48	21 33	21 42	4 49	16 2	6 58	
S 4	17 57	21 30	2 0	16 48	0 42	22 32	0 37	13 33	0 20	0 25	1 33	11 19	2 13	19 36	0 37	0 58	1 31	25 6	7 49	21 33	21 41	4 51	16 1	6 59	
M 5	18 13	19 50	3 5	16 8	1 1	22 46	0 40	13 47	0 20	0 24	1 33	11 22	2 13	19 36	0 37	0 59	1 31	25 6	7 49	21 33	21 41	4 53	16 1	7 0	
T 6	18 29	17 11	3 58	15 29	1 20	22 59	0 42	14 1	0 19	0 23	1 32	11 24	2 13	19 36	0 37	0 59	1 31	25 7	7 49	21 33	21 40	4 56	16 1	7 0	
W 7	18 44	13 48	4 38	14 55	1 36	23 11	0 44	14 15	0 19	0 22	1 32	11 26	2 13	19 36	0 37	1 0	1 31	25 7	7 49	21 33	21 40	4 58	16 0	7 1	
T 8	18 59	9 53	5 4	14 24	1 51	23 22	0 47	14 29	0 18	0 21	1 32	11 28	2 13	19 36	0 37	1 0	1 32	25 7	7 50	21 33	21 39	5 1	16 0	7 1	
F 9	19 14	5 40	5 16	13 58	2 3	23 33	0 49	14 42	0 17	0 21	1 32	11 31	2 13	19 36	0 37	1 1	1 32	25 8	7 50	21 33	21 39	5 3	15 59	7 2	
S 10	19 28	1 17	5 14	13 38	2 13	23 43	0 51	14 56	0 17	0 20	1 31	11 33	2 13	19 36	0 37	1 2	1 32	25 8	7 50	21 33	21 38	5 5	15 59	7 3	
S 11	19 42	3n 8	4 59	13 23	2 22	23 52	0 54	15 9	0 16	0 20	1 31	11 35	2 13	19 36	0 37	1 2	1 32	25 8	7 51	21 33	21 38	5 8	15 59	7 3	
M 12	19 56	7 26	4 31	13 13	2 28	24 1	0 56	15 23	0 16	0 19	1 31	11 37	2 13	19 37	0 37	1 3	1 32	25 9	7 51	21 33	21 37	5 10	15 58	7 4	
T 13	20 9	11 29	3 51	13 8	2 32	24 9	0 58	15 36	0 15	0 19	1 30	11 39	2 13	19 37	0 37	1 3	1 32	25 9	7 51	21 33	21 37	5 12	15 58	7 4	
W 14	20 22	15 7	3 1	13 9	2 35	24 16	1 0	15 49	0 15	0 18	1 30	11 42	2 13	19 37	0 37	1 4	1 32	25 9	7 51	21 33	21 36	5 15	15 58	7 5	
T 15	20 34	18 10	2 2	13 13	2 36	24 22	1 3	16 2	0 14	0 18	1 30	11 44	2 13	19 37	0 37	1 4	1 32	25 10	7 52	21 32	21 35	5 17	15 57	7 5	
F 16	20 46	20 25	0 56	13 22	2 36	24 28	1 5	16 15	0 13	0 18	1 30	11 46	2 13	19 37	0 37	1 5	1 32	25 10	7 52	21 32	21 35	5 19	15 57	7 6	
S 17	20 58	21 42	0s14	13 34	2 35	24 33	1 7	16 27	0 13	0 18	1 29	11 48	2 13	19 38	0 37	1 5	1 32	25 10	7 52	21 32	21 34	5 22	15 57	7 6	
S 18	21 9	21 53	1 24	13 48	2 32	24 37	1 9	16 40	0 12	0 18	1 29	11 50	2 13	19 38	0 37	1 6	1 32	25 11	7 53	21 32	21 34	5 24	15 57	7 7	
M 19	21 20	20 53	2 31	14 6	2 29	24 41	1 11	16 53	0 12	0 18	1 29	11 52	2 14	19 38	0 37	1 6	1 32	25 11	7 53	21 32	21 33	5 26	15 56	7 7	
T 20	21 31	18 44	3 31	14 25	2 25	24 43	1 13	17 5	0 11	0 18	1 28	11 54	2 14	19 38	0 37	1 7	1 32	25 12	7 53	21 32	21 33	5 29	15 56	7 8	
W 21	21 41	15 31	4 20	14 47	2 20	24 45	1 15	17 17	0 10	0 19	1 28	11 56	2 14	19 39	0 37	1 7	1 32	25 12	7 53	21 32	21 32	5 31	15 56	7 8	
T 22	21 51	11 27	4 56	15 9	2 15	24 46	1 17	17 29	0 10	0 19	1 28	11 58	2 14	19 39	0 37	1 8	1 32	25 12	7 54	21 32	21 32	5 33	15 56	7 9	
F 23	22 0	6 43	5 15	15 33	2 9	24 47	1 18	17 41	0 9	0 19	1 27	12 0	2 14	19 39	0 37	1 8	1 32	25 13	7 54	21 32	21 31	5 35	15 55	7 9	
S 24	22 9	1 34	5 15	15 58	2 3	24 46	1 20	17 53	0 9	0 20	1 27	12 2	2 14	19 40	0 37	1 9	1 32	25 13	7 54	21 32	21 31	5 38	15 55	7 10	
S 25	22 17	3s42	4 56	16 23	1 56	24 45	1 22	18 5	0 8	0 21	1 27	12 4	2 14	19 40	0 37	1 9	1 32	25 14	7 54	21 32	21 30	5 40	15 55	7 10	
M 26	22 25	8 50	4 19	16 49	1 49	24 43	1 24	18 16	0 7	0 21	1 26	12 6	2 14	19 40	0 37	1 9	1 32	25 14	7 55	21 32	21 30	5 42	15 55	7 10	
T 27	22 32	13 30	3 26	17 15	1 42	24 41	1 25	18 27	0 7	0 22	1 26	12 8	2 14	19 41	0 37	1 10	1 32	25 15	7 55	21 33	21 29	5 45	15 55	7 11	
W 28	22 40	17 23	2 19	17 41	1 35	24 37	1 27	18 39	0 6	0 23	1 26	12 10	2 14	19 41	0 37	1 10	1 33	25 15	7 55	21 33	21 29	5 47	15 55	7 11	
T 29	22 46	20 12	1 4	18 7	1 27	24 33	1 28	18 50	0 6	0 24	1 26	12 12	2 15	19 41	0 37	1 11	1 33	25 15	7 56	21 33	21 28	5 49	15 55	7 12	
F 30	22s52	21s43	0n14	18s33	1n20	24s28	1s30	19s 1	0n 5	0n25	1s25	12s14	2n15	19n42	0n37	1s11	1n33	25n16	7n56	21s33	21s27	5n52	15n55	7s12	

# ASTRODIENST EPHEMERIS for the year 1453

## geocentric

DECEMBER 1453 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 14 8	18♌1'08	23♌27	29♌43	13♌4	25♌47	4♌21	8♌31	4°R54	6♌33	10°R31	7°R 1	6♌27	4♌20	10°R30	S 1
S 2	5 18 5	19° 2'16	7♌5	1♌8	14°19	26°30	4°23	8°37	4♌52	6°34	10♌30	7♌0	6°24	4°26	10♌27	S 2
M 3	5 22 1	20° 3'25	20°24	2°33	15°33	27°12	4°26	8°43	4°51	6°35	10°29	6°59	6°20	4°33	10°23	M 3
T 4	5 25 58	21° 4'34	3♌22	3°59	16°48	27°55	4°29	8°49	4°49	6°36	10°29	6°57	6°17	4°40	10°19	T 4
W 5	5 29 54	22° 5'43	16° 1	5°26	18° 2	28°37	4°31	8°55	4°47	6°36	10°28	6°54	6°14	4°47	10°15	W 5
T 6	5 33 51	23° 6'53	28°22	6°53	19°17	29°20	4°35	9° 1	4°46	6°37	10°27	6°52	6°11	4°53	10°11	T 6
F 7	5 37 47	24° 8'02	10♌29	8°21	20°32	0♌2	4°38	9° 7	4°44	6°38	10°26	6°51	6° 8	5° 0	10° 7	F 7
S 8	5 41 44	25° 9'12	22°26	9°50	21°46	0°45	4°41	9°12	4°42	6°39	10°25	6°D50	6° 5	5° 7	10° 3	S 8
S 9	5 45 40	26°10'22	4♌18	11°19	23° 1	1°28	4°45	9°18	4°40	6°40	10°24	6°51	6° 1	5°13	9°59	S 9
M10	5 49 37	27°11'31	16°10	12°48	24°15	2°10	4°49	9°24	4°38	6°40	10°23	6°52	5°58	5°20	9°55	M10
T 11	5 53 34	28°12'41	28° 6	14°18	25°30	2°53	4°53	9°29	4°36	6°41	10°22	6°53	5°55	5°27	9°51	T 11
W12	5 57 30	29°13'51	10♌11	15°48	26°44	3°36	4°57	9°35	4°34	6°42	10°21	6°55	5°52	5°33	9°47	W12
T 13	6 1 27	0♌15'01	22°30	17°19	27°59	4°19	5° 2	9°40	4°32	6°42	10°20	6°56	5°49	5°40	9°43	T 13
F 14	6 5 23	1°16'11	5♌4	18°50	29°13	5° 2	5° 6	9°45	4°30	6°43	10°19	6°R57	5°46	5°47	9°39	F 14
S 15	6 9 20	2°17'20	17°56	20°21	0♌28	5°45	5°11	9°51	4°28	6°43	10°18	6°57	5°42	5°54	9°34	S 15
S 16	6 13 16	3°18'30	1♌6	21°53	1°42	6°27	5°16	9°56	4°26	6°44	10°17	6°55	5°39	6° 0	9°30	S 16
M17	6 17 13	4°19'40	14°35	23°25	2°56	7°10	5°21	10° 1	4°24	6°44	10°16	6°52	5°36	6° 7	9°26	M17
T 18	6 21 9	5°20'50	28°19	24°58	4°11	7°54	5°27	10° 6	4°22	6°45	10°15	6°48	5°33	6°14	9°22	T 18
W19	6 25 6	6°21'59	12♌16	26°31	5°25	8°37	5°32	10°11	4°20	6°45	10°14	6°43	5°30	6°20	9°17	W19
T 20	6 29 3	7°23'09	26°21	28° 4	6°39	9°20	5°38	10°16	4°18	6°45	10°13	6°38	5°26	6°27	9°13	T 20
F 21	6 32 59	8°24'19	10♌32	29°37	7°53	10° 3	5°44	10°21	4°15	6°46	10°11	6°34	5°23	6°34	9° 9	F 21
S 22	6 36 56	9°25'29	24°44	1♌11	9° 8	10°46	5°50	10°26	4°13	6°46	10°10	6°32	5°20	6°41	9° 5	S 22
S 23	6 40 52	10°26'39	8♌55	2°46	10°22	11°29	5°56	10°31	4°11	6°46	10° 9	6°D31	5°17	6°47	9° 0	S 23
M24	6 44 49	11°27'49	23° 3	4°21	11°36	12°13	6° 3	10°35	4° 8	6°46	10° 8	6°32	5°14	6°54	8°56	M24
T 25	6 48 45	12°28'59	7♌5	5°56	12°50	12°56	6° 9	10°40	4° 6	6°47	10° 7	6°33	5°11	7° 1	8°52	T 25
W26	6 52 42	13°30'09	21° 2	7°31	14° 4	13°39	6°16	10°44	4° 4	6°47	10° 5	6°34	5° 7	7° 7	8°48	W26
T 27	6 56 38	14°31'19	4♌52	9° 8	15°18	14°23	6°23	10°49	4° 1	6°47	10° 4	6°R35	5° 4	7°14	8°43	T 27
F 28	7 0 35	15°32'29	18°33	10°44	16°32	15° 6	6°30	10°53	3°59	6°47	10° 3	6°35	5° 1	7°21	8°39	F 28
S 29	7 4 32	16°33'39	2♌4	12°21	17°46	15°50	6°37	10°57	3°56	6°47	10° 2	6°32	4°58	7°27	8°35	S 29
S 30	7 8 28	17°34'48	15°23	13°59	19° 0	16°33	6°45	11° 2	3°54	6°R47	10° 0	6°27	4°55	7°34	8°31	S 30
M31	7 12 25	18°35'57	28♌27	15♌37	20♌14	17♌17	6°Y52	11♌6	3♌51	6♌47	9♌59	6♌21	4♌52	7°Y41	8♌26	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	22s58	21s51	1n30	18s58	1n12	24s23	1s31	19s11	0n 4	0n26	1s25	12s15	2n15	19n42	0n38	S 1
S 2	23 3	20 40	2 39	19 23	1 5	24 16	1 32	19 22	0 4	0 27	1 25	12 17	2 15	19 43	0 38	S 2
M 3	23 8	18 22	3 38	19 48	0 57	24 9	1 34	19 32	0 3	0 29	1 24	12 19	2 15	19 43	0 38	M 3
T 4	23 12	15 11	4 24	20 12	0 49	24 1	1 35	19 43	0 2	0 30	1 24	12 21	2 15	19 43	0 38	T 4
W 5	23 16	11 23	4 55	20 35	0 42	23 52	1 36	19 53	0 2	0 31	1 24	12 23	2 15	19 44	0 38	W 5
T 6	23 20	7 11	5 12	20 58	0 34	23 43	1 37	20 3	0 1	0 33	1 23	12 24	2 15	19 44	0 38	T 6
F 7	23 23	2 48	5 15	21 19	0 27	23 33	1 38	20 13	0 1	0 34	1 23	12 26	2 16	19 45	0 38	F 7
S 8	23 25	1n39	5 4	21 40	0 19	23 22	1 39	20 22	0s 0	0 36	1 23	12 28	2 16	19 45	0 38	S 8
S 9	23 27	6 0	4 40	22 0	0 12	23 11	1 40	20 32	0 1	0 38	1 22	12 29	2 16	19 46	0 38	S 9
M10	23 29	10 8	4 5	22 20	0 4	22 59	1 41	20 41	0 1	0 40	1 22	12 31	2 16	19 46	0 38	M10
T 11	23 30	13 55	3 18	22 38	0s 3	22 46	1 41	20 50	0 2	0 42	1 22	12 33	2 16	19 47	0 38	T 11
W12	23 30	17 10	2 22	22 55	0 10	22 32	1 42	20 59	0 3	0 44	1 22	12 34	2 16	19 47	0 38	W12
T 13	23 31	19 43	1 19	23 11	0 17	22 18	1 43	21 7	0 3	0 46	1 21	12 36	2 16	19 48	0 38	T 13
F 14	23 30	21 23	0 10	23 26	0 24	22 3	1 43	21 16	0 4	0 48	1 21	12 37	2 17	19 48	0 38	F 14
S 15	23 29	21 58	1s 0	23 40	0 31	21 48	1 44	21 24	0 5	0 50	1 21	12 39	2 17	19 49	0 38	S 15
S 16	23 28	21 21	2 9	23 53	0 37	21 32	1 44	21 32	0 5	0 52	1 20	12 40	2 17	19 49	0 38	S 16
M17	23 26	19 32	3 12	24 4	0 43	21 15	1 44	21 40	0 6	0 55	1 20	12 42	2 17	19 50	0 38	M17
T 18	23 24	16 33	4 5	24 14	0 50	20 58	1 45	21 48	0 7	0 57	1 20	12 43	2 17	19 50	0 38	T 18
W19	23 21	12 37	4 45	24 24	0 56	20 40	1 45	21 55	0 7	0 59	1 20	12 45	2 17	19 51	0 38	W19
T 20	23 18	7 57	5 7	24 31	1 2	20 21	1 45	22 3	0 8	1 2	1 19	12 46	2 17	19 51	0 38	T 20
F 21	23 15	2 50	5 12	24 38	1 7	20 2	1 45	22 10	0 9	1 5	1 19	12 47	2 18	19 52	0 38	F 21
S 22	23 10	2s26	4 57	24 43	1 13	19 42	1 45	22 17	0 9	1 7	1 19	12 49	2 18	19 53	0 38	S 22
S 23	23 6	7 35	4 24	24 47	1 18	19 22	1 44	22 23	0 10	1 10	1 18	12 50	2 18	19 53	0 38	S 23
M24	23 1	12 19	3 35	24 49	1 23	19 1	1 44	22 30	0 11	1 13	1 18	12 51	2 18	19 54	0 38	M24
T 25	22 55	16 20	2 34	24 50	1 28	18 40	1 44	22 36	0 11	1 16	1 18	12 53	2 18	19 54	0 38	T 25
W26	22 49	19 25	1 24	24 50	1 32	18 18	1 43	22 42	0 12	1 19	1 18	12 54	2 18	19 55	0 38	W26
T 27	22 43	21 19	0 9	24 48	1 37	17 56	1 43	22 48	0 13	1 22	1 17	12 55	2 19	19 56	0 38	T 27
F 28	22 36	21 56	1n 5	24 45	1 41	17 33	1 42	22 54	0 13	1 25	1 17	12 56	2 19	19 56	0 38	F 28
S 29	22 29	21 16	2 14	24 40	1 45	17 10	1 42	22 59	0 14	1 28	1 17	12 57	2 19	19 57	0 38	S 29
S 30	22 21	19 24	3 15	24 34	1 48	16 46	1 41	23 4	0 15	1 31	1 16	12 58	2 19	19 57	0 38	S 30
M31	22s13	16s33	4n 4	24s26	1s51	16s22	1s40	23s 9	0s16	1n34	1s16	12s59	2n19	19n58	0n38	M31

Julian Day Number = 2252100.5, Delta T = 06m22s

Ecliptic obliquity = 23°30'33", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°07'18", Lahiri = 16°14'19" Julian Calendar 1 Dec. 1453 == Greg. Calendar 10 Dec. 1453