



Astrodienst Ephemeris Tables for the year 1441

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 1441

geocentric

JANUARY 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	7 16 55	19°34'11	25°49	19°32	2°47	9°15	2°23	12°25	3°R 6	8°R 4	20°R15	15°R 9	16°14	18°38	16°47	S 1
M 2	7 20 51	20°47'16	9°59	21°13	4° 2	10° 1	2°35	12°25	3°II 5	8°II 3	20°13	15°10	16°10	18°44	16°48	M 2
T 3	7 24 48	21°48'21	24° 7	22°54	5°18	10°47	2°48	12°25	3° 3	8° 2	20°12	15° 5	16° 7	18°51	16°48	T 3
W 4	7 28 45	22°49'25	8°II 11	24°35	6°33	11°33	3° 1	12°D24	3° 2	8° 1	20°11	15° 2	16° 4	18°58	16°49	W 4
T 5	7 32 41	23°50'27	22° 7	26°17	7°48	12°19	3°14	12°24	3° 1	8° 0	20° 9	14°59	16° 1	19° 4	16°50	T 5
F 6	7 36 38	24°51'29	5°52	27°59	9° 3	13° 5	3°26	12°25	2°59	7°59	20° 8	14°56	15°58	19°11	16°51	F 6
S 7	7 40 34	25°52'30	19°23	29°42	10°18	13°52	3°39	12°25	2°58	7°58	20° 7	14°54	15°54	19°18	16°53	S 7
S 8	7 44 31	26°53'30	2°138	1°26	11°33	14°38	3°52	12°25	2°57	7°57	20° 5	14°52	15°51	19°25	16°54	S 8
M 9	7 48 27	27°54'29	15°35	3°10	12°48	15°24	4° 5	12°26	2°56	7°55	20° 4	14°D52	15°48	19°31	16°55	M 9
T 10	7 52 24	28°55'28	28°16	4°54	14° 4	16°10	4°18	12°26	2°54	7°54	20° 3	14°52	15°45	19°38	16°56	T 10
W11	7 56 20	29°56'25	10°II 40	6°39	15°19	16°57	4°32	12°27	2°53	7°53	20° 1	14°53	15°42	19°45	16°58	W11
T 12	8 0 17	0°57'22	22°51	8°24	16°34	17°43	4°45	12°28	2°52	7°52	20° 0	14°55	15°39	19°51	16°59	T 12
F 13	8 4 14	1°58'18	4°151	10°10	17°49	18°30	4°58	12°29	2°51	7°51	19°59	14°56	15°35	19°58	17° 1	F 13
S 14	8 8 10	2°59'13	16°44	11°56	19° 4	19°16	5°11	12°30	2°50	7°49	19°58	14°57	15°32	20° 5	17° 2	S 14
S 15	8 12 7	4° 0'07	28°36	13°42	20°19	20° 2	5°25	12°31	2°50	7°48	19°56	14°58	15°29	20°11	17° 4	S 15
M16	8 16 3	5° 1'01	10°II 30	15°27	21°34	20°49	5°38	12°32	2°49	7°47	19°55	14°R58	15°26	20°18	17° 5	M16
T 17	8 20 0	6° 1'53	22°32	17°13	22°49	21°36	5°52	12°33	2°48	7°45	19°54	14°57	15°23	20°25	17° 7	T 17
W18	8 23 56	7° 2'45	4°17	18°58	24° 4	22°22	6° 5	12°35	2°47	7°44	19°52	14°56	15°20	20°32	17° 9	W18
T 19	8 27 53	8° 3'36	17°17	20°42	25°19	23° 9	6°19	12°36	2°47	7°43	19°51	14°55	15°16	20°38	17°10	T 19
F 20	8 31 49	9° 4'26	0°3 6	22°26	26°34	23°55	6°33	12°38	2°46	7°41	19°50	14°55	15°13	20°45	17°12	F 20
S 21	8 35 46	10° 5'15	13°16	24° 8	27°48	24°42	6°46	12°40	2°45	7°40	19°49	14°54	15°10	20°52	17°14	S 21
S 22	8 39 43	11° 6'02	26°47	25°49	29° 3	25°29	7° 0	12°42	2°45	7°38	19°48	14°53	15° 7	20°58	17°16	S 22
M23	8 43 39	12° 6'49	10°II 38	27°28	0°18	26°15	7°14	12°44	2°44	7°37	19°46	14°D53	15° 4	21° 5	17°18	M23
T 24	8 47 36	13° 7'34	24°46	29° 4	1°33	27° 2	7°28	12°46	2°44	7°35	19°45	14°53	15° 0	21°12	17°20	T 24
W25	8 51 32	14° 8'18	9°II 6	0°137	2°48	27°49	7°42	12°48	2°44	7°34	19°44	14°53	14°57	21°19	17°22	W25
T 26	8 55 29	15° 9'00	23°34	2° 7	4° 3	28°35	7°56	12°51	2°43	7°32	19°43	14°R53	14°54	21°25	17°24	T 26
F 27	8 59 25	16° 9'40	8°II 3	3°32	5°17	29°22	8°10	12°53	2°43	7°31	19°42	14°53	14°51	21°32	17°27	F 27
S 28	9 3 22	17°10'19	22°29	4°53	6°32	0°9 9	8°24	12°56	2°43	7°29	19°40	14°53	14°48	21°39	17°29	S 28
S 29	9 7 18	18°10'55	6°18	6° 8	7°47	0°56	8°38	12°58	2°43	7°28	19°39	14°53	14°45	21°45	17°31	S 29
M30	9 11 15	19°11'31	20°48	7°16	9° 1	1°43	8°52	13° 1	2°43	7°26	19°38	14°D53	14°41	21°52	17°33	M30
T 31	9 15 12	20°12'04	4°II 54	8°II 18	10°II 16	2°29	9°II 6	13°II 4	2°D43	7°II 25	19°37	14°II 53	14°II 38	21°59	17°II 36	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	22s 3	5n24	4s57	24s 3	2s 0	20s57	1s24	24s 0	0s49	11s39	1s 4	13n25	2s18	20n45	0s 5	9n28
M 2	21 54	9 54	5 13	23 50	2 1	20 40	1 25	23 57	0 49	11 34	1 4	13 26	2 17	20 45	0 5	9 28
T 3	21 44	13 50	5 10	23 35	2 3	20 23	1 25	23 54	0 50	11 30	1 4	13 26	2 17	20 45	0 5	9 28
W 4	21 34	16 59	4 49	23 18	2 4	20 5	1 26	23 50	0 50	11 25	1 4	13 26	2 17	20 45	0 5	9 29
T 5	21 24	19 6	4 11	23 0	2 4	19 47	1 27	23 47	0 51	11 20	1 4	13 26	2 16	20 44	0 5	9 29
F 6	21 13	20 4	3 19	22 40	2 5	19 27	1 28	23 43	0 51	11 16	1 4	13 27	2 16	20 44	0 5	9 30
S 7	21 2	19 52	2 16	22 18	2 4	19 8	1 28	23 38	0 51	11 11	1 4	13 27	2 16	20 44	0 5	9 30
S 8	20 50	18 32	1 7	21 55	2 4	18 48	1 29	23 34	0 52	11 6	1 3	13 28	2 16	20 44	0 5	9 31
M 9	20 38	16 16	0n 4	21 30	2 3	18 27	1 30	23 29	0 52	11 1	1 3	13 28	2 15	20 44	0 5	9 31
T 10	20 26	13 16	1 13	21 3	2 1	18 6	1 30	23 24	0 53	10 57	1 3	13 28	2 15	20 43	0 5	9 31
W11	20 13	9 43	2 18	20 35	1 59	17 44	1 30	23 19	0 53	10 52	1 3	13 29	2 15	20 43	0 5	9 32
T 12	20 0	5 50	3 15	20 5	1 56	17 22	1 31	23 13	0 54	10 47	1 3	13 29	2 14	20 43	0 5	9 32
F 13	19 47	1 47	4 3	19 33	1 53	16 59	1 31	23 7	0 54	10 42	1 3	13 30	2 14	20 43	0 5	9 33
S 14	19 33	2s18	4 39	19 0	1 49	16 36	1 31	23 1	0 55	10 37	1 3	13 31	2 14	20 43	0 5	9 33
S 15	19 19	6 16	5 4	18 26	1 44	16 12	1 31	22 55	0 55	10 32	1 3	13 31	2 13	20 42	0 5	9 34
M16	19 4	10 1	5 16	17 50	1 39	15 48	1 31	22 48	0 55	10 27	1 3	13 32	2 13	20 42	0 5	9 35
T 17	18 49	13 24	5 14	17 12	1 33	15 23	1 31	22 41	0 56	10 22	1 3	13 33	2 13	20 42	0 5	9 35
W18	18 34	16 16	4 58	16 33	1 27	14 59	1 31	22 34	0 56	10 17	1 3	13 33	2 13	20 42	0 5	9 36
T 19	18 18	18 27	4 28	15 53	1 19	14 33	1 31	22 27	0 57	10 12	1 3	13 34	2 12	20 42	0 5	9 36
F 20	18 2	19 47	3 44	15 12	1 11	14 7	1 31	22 19	0 57	10 7	1 3	13 35	2 12	20 42	0 5	9 37
S 21	17 46	20 5	2 47	14 30	1 3	13 41	1 31	22 11	0 57	10 1	1 3	13 36	2 12	20 42	0 5	9 37
S 22	17 30	19 15	1 39	13 47	0 53	13 15	1 30	22 3	0 58	9 56	1 3	13 37	2 11	20 42	0 5	9 38
M23	17 13	17 15	0 24	13 4	0 43	12 48	1 30	21 55	0 58	9 51	1 3	13 37	2 11	20 42	0 5	9 38
T 24	16 56	14 10	0s55	12 20	0 32	12 21	1 29	21 46	0 59	9 46	1 3	13 38	2 11	20 41	0 5	9 39
W25	16 38	10 12	2 10	11 36	0 20	11 53	1 29	21 37	0 59	9 41	1 3	13 39	2 10	20 41	0 5	9 40
T 26	16 20	5 36	3 19	10 52	0 8	11 26	1 28	21 28	0 59	9 35	1 3	13 40	2 10	20 41	0 5	9 40
F 27	16 2	0 41	4 14	10 9	0n 6	10 57	1 28	21 19	1 0	9 30	1 3	13 41	2 10	20 41	0 5	9 41
S 28	15 44	4n14	4 53	9 27	0 19	10 29	1 27	21 9	1 0	9 25	1 3	13 42	2 10	20 41	0 5	9 41
S 29	15 26	8 53	5 14	8 46	0 34	10 0	1 26	21 0	1 0	9 20	1 3	13 43	2 9	20 41	0 5	9 42
M30	15 7	12 58	5 16	8 7	0 49	9 31	1 25	20 50	1 1	9 14	1 3	13 45	2 9	20 41	0 5	9 43
T 31	14s48	16n17	4s58	7s29	1n 4	9s 2	1s24	20s39	1s 1	9s 9	1s 3	13n46	2s 9	20n41	0s 5	9n43

Julian Day Number = 2247383.5, Delta T = 06m45s

Ecliptic obliquity = 23°30'36", Nutation = - 0°00'11", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°56'30", Lahiri = 16°03'31" Julian Calendar 1 Jan. 1441 == Greg. Calendar 10 Jan. 1441

ASTRODIENST EPHEMERIS for the year 1441

geocentric

MARCH 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	11 9 32	19°15'33	29°11' 7	27°D17	16°V 5	25°≈12	16°H 4	15°B 8	3°II 4	6°R37	19°R12	14°J25	13°Ω 6	25°Δ14	19°V 2	W 1	
T 2	11 13 28	20°15'11	12°E25	27°≈21	17°19	25°59	16°18	15°14	3° 6	6°M35	19°E11	14°27	13° 3	25°20	19° 5	T 2	
F 3	11 17 25	21°14'47	25°25	27°31	18°32	26°46	16°33	15°19	3° 7	6°34	19°11	14°28	13° 0	25°27	19° 8	F 3	
S 4	11 21 21	22°14'20	8°Ω10	27°46	19°45	27°33	16°47	15°25	3° 9	6°32	19°10	14°R30	12°57	25°34	19°12	S 4	
S 5	11 25 18	23°13'51	20°41	28° 7	20°59	28°20	17° 2	15°31	3°11	6°30	19°10	14°30	12°53	25°40	19°15	S 5	
M 6	11 29 14	24°13'20	3°M 2	28°32	22°12	29° 7	17°16	15°36	3°12	6°29	19° 9	14°28	12°50	25°47	19°19	M 6	
T 7	11 33 11	25°12'47	15°15	29° 3	23°25	29°54	17°31	15°42	3°14	6°27	19° 9	14°24	12°47	25°54	19°23	T 7	
W 8	11 37 7	26°12'12	27°20	29°37	24°38	0°H 41	17°45	15°48	3°16	6°26	19° 9	14°18	12°44	26° 1	19°26	W 8	
T 9	11 41 4	27°11'35	9°Δ19	0°H 15	25°51	1°28	17°59	15°54	3°18	6°24	19° 8	14°11	12°41	26° 7	19°30	T 9	
F 10	11 45 1	28°10'55	21°14	0°58	27° 4	2°15	18°14	16° 0	3°19	6°23	19° 8	14° 2	12°37	26°14	19°33	F 10	
S 11	11 48 57	29°10'14	3°M 7	1°44	28°17	3° 2	18°28	16° 6	3°21	6°21	19° 8	13°54	12°34	26°21	19°37	S 11	
S 12	11 52 54	0°V 9'31	14°59	2°33	29°30	3°49	18°43	16°13	3°23	6°20	19° 7	13°46	12°31	26°27	19°41	S 12	
M13	11 56 50	1° 8'46	26°53	3°26	0°B 43	4°36	18°57	16°19	3°25	6°18	19° 7	13°39	12°28	26°34	19°44	M13	
T 14	12 0 47	2° 7'59	8°Δ53	4°22	1°56	5°22	19°11	16°25	3°27	6°17	19° 7	13°34	12°25	26°41	19°48	T 14	
W15	12 4 43	3° 7'10	21° 2	5°20	3° 9	6° 9	19°26	16°31	3°29	6°15	19° 6	13°31	12°22	26°48	19°52	W15	
T 16	12 8 40	4° 6'20	3°B 25	6°22	4°21	6°56	19°40	16°38	3°32	6°14	19° 6	13°D30	12°18	26°54	19°55	T 16	
F 17	12 12 36	5° 5'27	16° 6	7°26	5°34	7°43	19°54	16°44	3°34	6°12	19° 6	13°31	12°15	27° 1	19°59	F 17	
S 18	12 16 33	6° 4'33	29°10	8°32	6°47	8°30	20° 8	16°51	3°36	6°11	19° 6	13°32	12°12	27° 8	20° 3	S 18	
S 19	12 20 29	7° 3'37	12°≈41	9°41	7°59	9°17	20°23	16°57	3°38	6° 9	19° 6	13°R32	12° 9	27°14	20° 6	S 19	
M20	12 24 26	8° 2'40	26°40	10°52	9°12	10° 4	20°37	17° 4	3°41	6° 8	19° 6	13°32	12° 6	27°21	20°10	M20	
T 21	12 28 23	9° 1'40	11°H 6	12° 6	10°24	10°50	20°51	17°11	3°43	6° 7	19° 6	13°29	12° 3	27°28	20°14	T 21	
W22	12 32 19	10° 0'39	25°58	13°21	11°37	11°37	21° 5	17°18	3°45	6° 5	19° 5	13°24	11°59	27°35	20°18	W22	
T 23	12 36 16	10°59'35	11°V 6	14°39	12°49	12°24	21°19	17°24	3°48	6° 4	19° 5	13°16	11°56	27°41	20°22	T 23	
F 24	12 40 12	11°58'30	26°22	15°58	14° 1	13°11	21°33	17°31	3°50	6° 3	19°D 5	13° 8	11°53	27°48	20°25	F 24	
S 25	12 44 9	12°57'22	11°B 34	17°19	15°13	13°57	21°47	17°38	3°53	6° 1	19° 5	12°59	11°50	27°55	20°29	S 25	
S 26	12 48 5	13°56'12	26°33	18°43	16°25	14°44	22° 1	17°45	3°55	6° 0	19° 6	12°50	11°47	28° 1	20°33	S 26	
M27	12 52 2	14°55'00	11°II 9	20° 8	17°37	15°31	22°15	17°52	3°58	5°59	19° 6	12°44	11°43	28° 8	20°37	M27	
T 28	12 55 58	15°53'46	25°19	21°34	18°49	16°18	22°29	17°59	4° 0	5°58	19° 6	12°40	11°40	28°15	20°41	T 28	
W29	12 59 55	16°52'30	9°E 2	23° 3	20° 1	17° 4	22°43	18° 6	4° 3	5°57	19° 6	12°38	11°37	28°22	20°44	W29	
T 30	13 3 52	17°51'11	22°19	24°33	21°13	17°51	22°57	18°13	4° 6	5°55	19° 6	12°D38	11°34	28°28	20°48	T 30	
F 31	13 7 48	18°V 49'50	5°Ω13	26°H 5	22°B 25	18°H 37	23°H 10	18°B 20	4°II 8	5°M 54	19°E 6	12°Ω39	11°Ω31	28°Δ35	20°V 52	F 31	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	4s16	19n48	3s42	11s20	1n12	5n53	0s30	14s14	1s 9	6s29	1s 3	14n29	2s 1	20n46	0s 4	10n 1	0n59	24n30	2n24	16n33	16n56	5s14	7n59	0n33			
T 2	3 52	20 10	2 46	11 32	0 57	6 24	0 27	13 58	1 9	6 23	1 3	14 31	2 1	20 46	0 4	10 2	0 59	24 30	2 24	16 33	16 57	5 16	8 0	0 33			
F 3	3 29	19 27	1 42	11 42	0 43	6 55	0 24	13 42	1 9	6 18	1 3	14 33	2 1	20 46	0 4	10 2	0 59	24 30	2 24	16 32	16 58	5 18	8 1	0 33			
S 4	3 5	17 44	0 34	11 49	0 29	7 25	0 22	13 26	1 9	6 12	1 3	14 35	2 1	20 47	0 4	10 3	0 59	24 30	2 24	16 32	16 59	5 20	8 3	0 33			
S 5	2 42	15 10	0n34	11 55	0 16	7 55	0 19	13 10	1 9	6 6	1 3	14 37	2 0	20 47	0 4	10 4	0 59	24 31	2 24	16 32	17 0	5 22	8 4	0 33			
M 6	2 18	11 58	1 39	11 58	0 3	8 25	0 16	12 54	1 9	6 1	1 3	14 39	2 0	20 47	0 4	10 4	0 59	24 31	2 24	16 32	17 1	5 24	8 5	0 33			
T 7	1 54	8 16	2 39	11 59	0s 9	8 55	0 13	12 37	1 9	5 55	1 3	14 41	2 0	20 48	0 4	10 5	0 59	24 31	2 24	16 34	17 1	5 27	8 6	0 32			
W 8	1 31	4 17	3 31	11 58	0 21	9 25	0 10	12 21	1 9	5 50	1 3	14 42	2 0	20 48	0 4	10 5	0 59	24 31	2 24	16 35	17 2	5 29	8 8	0 32			
T 9	1 7	0 10	4 13	11 56	0 33	9 54	0 8	12 4	1 10	5 44	1 3	14 44	2 0	20 49	0 4	10 6	0 59	24 31	2 24	16 37	17 3	5 31	8 9	0 32			
F 10	0 44	3s55	4 44	11 51	0 44	10 23	0 5	11 47	1 10	5 38	1 3	14 46	1 59	20 49	0 4	10 7	0 59	24 31	2 24	16 40	17 4	5 33	8 10	0 32			
S 11	0 20	7 51	5 2	11 44	0 55	10 52	0 2	11 30	1 10	5 33	1 3	14 48	1 59	20 49	0 4	10 7	0 59	24 31	2 24	16 42	17 5	5 35	8 11	0 32			
S 12	0n 4	11 29	5 8	11 36	1 5	11 21	0n 1	11 13	1 10	5 27	1 3	14 50	1 59	20 50	0 4	10 8	0 59	24 31	2 24	16 45	17 6	5 37	8 13	0 32			
M13	0 27	14 40	5 0	11 26	1 14	11 49	0 4	10 56	1 10	5 22	1 4	14 52	1 59	20 50	0 4	10 8	0 59	24 31	2 24	16 47	17 7	5 40	8 14	0 32			
T 14	0 51	17 16	4 38	11 13	1 23	12 18	0 7	10 39	1 10	5 16	1 4	14 54	1 59	20 50	0 4	10 9	0 59	24 31	2 24	16 48	17 8	5 42	8 15	0 32			
W15	1 15	19 8	4 5	11 0	1 31	12 45	0 10	10 22	1 10	5 10	1 4	14 56	1 58	20 51	0 4	10 9	0 59	24 31	2 24	16 49	17 9	5 44	8 17	0 32			
T 16	1 38	20 9	3 19	10 44	1 39	13 13	0 13	10 4	1 10	5 5	1 4	14 58	1 58	20 51	0 4	10 10	0 59	24 31	2 24	16 49	17 10	5 46	8 18	0 32			
F 17	2 2	20 11	2 22	10 27	1 47	13 40	0 16	9 47	1 10	4 59	1 4	15 0	1 58	20 52	0 4	10 10	0 59	24 31	2 24	16 49	17 10	5 48	8 19	0 32			
S 18	2 25	19 8	1 17	10 9	1 53	14 7	0 19	9 29	1 10	4 54	1 4	15 2	1 58	20 52	0 4	10 11	0 59	24 31	2 24	16 49	17 11	5 51	8 21	0 31			
S 19	2 49	16 59	0 5	9 48	2 0	14 34	0 22	9 12	1 10	4 48	1 4	15 4	1 58	20 53	0 4	10 11	0 59	24 31	2 24	16 48	17 12	5 53	8 22	0 31			
M20	3 12	13 46	1s10	9 27	2 5	15 0	0 25	8 54	1 10	4 43	1 4	15 6	1 57	20 53	0 4	10 12	0 59	24 31	2 24	16 49	17 13	5 55	8 23	0 31			
T 21	3 35	9 37	2 22	9 3	2 11	15 26	0 28	8 36	1 10	4 37	1 4	15 8	1 57	20 54	0 4	10 12	0 59	24 31	2 24	16 50	17 14	5 57	8 25	0 31			
W22	3 59	4 46	3 27	8 39	2 15	15 52	0 32	8 18	1 10	4 32	1 4	15 10	1 57	20 54	0 4	10 13	0 59	24 31	2 24	16 51	17 15	5 59	8 26	0 31			
T 23	4 22	0n27	4 18	8 12	2 19	16 17	0 35	8 0	1 10	4 26	1 4	15 12	1 57	20 54	0 4	10 13	0 59	24 31	2 24	16 53	17 16	6 1	8 27	0 31			
F 24	4 45	5 40	4 52	7 45	2 23	16 42	0 38	7 42	1 10	4 21	1 4	15 15	1 57	20 55	0 4	10 14	0 59	24 31	2 24	16 56	17 17	6 4	8 29	0 31			
S 25	5 8	10 31	5 4	7 16	2 26	17 6	0 41	7 24	1 10	4 15	1 4	15 17	1 57	20 55	0 4	10 14	0 59	24 31	2 24	16 58	17 18	6 6	8 30	0 31			
S 26	5 31	14 39	4 56	6 46	2 29	17 30	0 44	7 6	1 10	4 10	1 5	15 19	1 56	20 56	0 4	10 15	0 59	24 31	2 24	17 0	17 18	6 8	8 31	0 31			
M27	5 54	17 45	4 28	6 14	2 31	17 53	0 47	6 48	1 10	4 4	1 5	15 21	1 56	20 56	0 4	10 15	0 59	24 31	2 24	17 2	17 19	6 10	8 33	0 31			
T 28	6 16	19 41	3 44	5 41	2 32	18 16	0 50	6 30	1 10	3 59	1 5	15 23	1 56	20 57	0 4	10 16	0 59	24 31	2 24	17 3	17 20	6 12	8 34	0 31			
W29	6 39	20 23	2 49	5 7	2 33	18 39	0 53	6 12	1 10	3 54	1 5	15 25	1 56	20 57	0 4	10 16	0 59	24 31	2 24	17 4	17 21	6 14	8 36	0 31			
T 30	7 1	19 55	1 46	4 31	2 34	19 1	0 56	5 53	1 10	3 48	1 5	15 27	1 56	20 58	0 4	10 16	0 59	24 31	2 24	17 4	17 22	6 17	8 37	0 31			
F 31	7n24	18n23	0s40	3s55	2s34	19n23	0n59	5s35	1s10	3s43	1s 5	15n29	1s56	20n58	0s 4	10n17	0n59	24n31	2n24	17n 4	17n23	6s19	8n38	0n30			

Julian Day Number = 2247442.5, Delta T = 06m45s

Ecliptic obliquity = 23°30'37", Nutation = - 0°00'12", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°56'39", Lahiri = 16°03'39" Julian Calendar 1 March 1441 == Greg. Calendar 10 March 1441

ASTRODIENST EPHEMERIS for the year 1441
geocentric

APRIL 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 11 45	19°48'27	17°47	27°39	23°36	19°24	23°24	18°27	4°11	5°R53	19°6	12°R39	11°28	28°42	20°V56	S 1
S 2	13 15 41	20°47'01	0°8	29°15	24°48	20°10	23°38	18°35	4°14	5°M52	19° 7	12°237	11°24	28°49	21° 0	S 2
M 3	13 19 38	21°45'33	12°17	0°V52	26° 0	20°57	23°52	18°42	4°17	5°51	19° 7	12°33	11°21	28°55	21° 4	M 3
T 4	13 23 34	22°44'03	24°19	2°30	27°11	21°43	24° 5	18°49	4°19	5°50	19° 7	12°27	11°18	29° 2	21° 7	T 4
W 5	13 27 31	23°42'32	6°16	4°11	28°22	22°30	24°19	18°57	4°22	5°49	19° 7	12°18	11°15	29° 9	21°11	W 5
T 6	13 31 27	24°40'58	18° 9	5°53	29°34	23°16	24°32	19° 4	4°25	5°48	19° 8	12° 6	11°12	29°15	21°15	T 6
F 7	13 35 24	25°39'22	0°2	7°37	0°II45	24° 2	24°46	19°11	4°28	5°47	19° 8	11°53	11° 8	29°22	21°19	F 7
S 8	13 39 21	26°37'44	11°55	9°22	1°56	24°49	24°59	19°19	4°31	5°46	19° 8	11°40	11° 5	29°29	21°23	S 8
S 9	13 43 17	27°36'05	23°49	11°10	3° 7	25°35	25°12	19°26	4°34	5°45	19° 9	11°27	11° 2	29°36	21°26	S 9
M10	13 47 14	28°34'24	5°47	12°59	4°18	26°21	25°26	19°34	4°37	5°44	19° 9	11°16	10°59	29°42	21°30	M10
T 11	13 51 10	29°32'41	17°50	14°49	5°29	27° 8	25°39	19°41	4°40	5°43	19°10	11° 7	10°56	29°49	21°34	T 11
W12	13 55 7	0°30'57	0°3	16°42	6°39	27°54	25°52	19°49	4°43	5°43	19°10	11° 1	10°53	29°56	21°38	W12
T 13	13 59 3	1°29'11	12°25	18°36	7°50	28°40	26° 5	19°56	4°46	5°42	19°11	10°58	10°49	0°2	21°42	T 13
F 14	14 3 0	2°27'23	25° 4	20°32	9° 1	29°26	26°18	20° 4	4°49	5°41	19°11	10°56	10°46	0° 9	21°45	F 14
S 15	14 6 56	3°25'34	8°3	22°29	10°11	0°V12	26°31	20°11	4°52	5°40	19°12	10°56	10°43	0°16	21°49	S 15
S 16	14 10 53	4°23'44	21°26	24°29	11°22	0°58	26°44	20°19	4°55	5°40	19°12	10°56	10°40	0°23	21°53	S 16
M17	14 14 50	5°21'52	5°16	26°29	12°32	1°44	26°57	20°27	4°59	5°39	19°13	10°55	10°37	0°29	21°57	M17
T 18	14 18 46	6°19'58	19°35	28°32	13°42	2°30	27°10	20°34	5° 2	5°38	19°13	10°51	10°34	0°36	22° 1	T 18
W19	14 22 43	7°18'04	4°V19	0°36	14°52	3°16	27°23	20°42	5° 5	5°38	19°14	10°44	10°30	0°43	22° 4	W19
T 20	14 26 39	8°16'07	19°24	2°41	16° 2	4° 2	27°35	20°50	5° 8	5°37	19°15	10°36	10°27	0°50	22° 8	T 20
F 21	14 30 36	9°14'09	4°42	4°48	17°12	4°48	27°48	20°57	5°12	5°37	19°15	10°25	10°24	0°56	22°12	F 21
S 22	14 34 32	10°12'10	20° 0	6°56	18°22	5°34	28° 1	21° 5	5°15	5°36	19°16	10°14	10°21	1° 3	22°15	S 22
S 23	14 38 29	11°10'09	5°II 8	9° 5	19°32	6°20	28°13	21°13	5°18	5°36	19°17	10° 4	10°18	1°10	22°19	S 23
M24	14 42 25	12° 8'06	19°55	11°15	20°41	7° 6	28°25	21°21	5°21	5°35	19°18	9°55	10°14	1°16	22°23	M24
T 25	14 46 22	13° 6'02	4°515	13°25	21°51	7°51	28°38	21°28	5°25	5°35	19°18	9°50	10°11	1°23	22°26	T 25
W26	14 50 19	14° 3'56	18° 7	15°36	23° 0	8°37	28°50	21°36	5°28	5°34	19°19	9°47	10° 8	1°30	22°30	W26
T 27	14 54 15	15° 1'48	1°29	17°47	24°10	9°23	29° 2	21°44	5°31	5°34	19°20	9°45	10° 5	1°37	22°34	T 27
F 28	14 58 12	15°59'38	14°25	19°58	25°19	10° 8	29°14	21°52	5°35	5°34	19°21	9°45	10° 2	1°43	22°37	F 28
S 29	15 2 8	16°57'26	26°59	22° 8	26°28	10°54	29°26	21°59	5°38	5°33	19°22	9°45	9°59	1°50	22°41	S 29
S 30	15 6 5	17°55'13	9°17	24°18	27°II37	11°V39	29°38	22°8 7	5°II42	5°M33	19°23	9°244	9°255	1°M57	22°V44	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7n46	15n59	0n27	3s17	2s33	19n44	1n 2	5s17	1s10	3s37	1s 5	15n31	1s56	20n59	0s 4	10n17	0n59	24n31	2n24	17n 4	17n24	6s21	8n40	0n30					
S 2	8 8	12 53	1 32	2 38	2 32	20 4	1 5	4 58	1 10	3 32	1 5	15 33	1 55	20 59	0 4	10 18	0 59	24 31	2 24	17 4	17 25	6 23	8 41	0 30					
M 3	8 30	9 17	2 31	1 58	2 31	20 25	1 8	4 40	1 10	3 27	1 5	15 36	1 55	21 0	0 4	10 18	0 59	24 31	2 24	17 5	17 25	6 25	8 42	0 30					
T 4	8 52	5 21	3 22	1 16	2 29	20 44	1 11	4 21	1 9	3 21	1 5	15 38	1 55	21 1	0 4	10 18	0 59	24 31	2 24	17 7	17 26	6 27	8 44	0 30					
W 5	9 14	1 14	4 4	0 34	2 26	21 3	1 14	4 3	1 9	3 16	1 6	15 40	1 55	21 1	0 4	10 19	0 59	24 31	2 24	17 10	17 27	6 30	8 45	0 30					
T 6	9 35	2s54	4 35	0n10	2 23	21 22	1 17	3 44	1 9	3 11	1 6	15 42	1 55	21 2	0 4	10 19	0 59	24 31	2 24	17 13	17 28	6 32	8 47	0 30					
F 7	9 57	6 55	4 54	0 54	2 19	21 40	1 20	3 26	1 9	3 6	1 6	15 44	1 55	21 2	0 4	10 19	0 59	24 31	2 24	17 17	17 29	6 34	8 48	0 30					
S 8	10 18	10 41	5 0	1 40	2 15	21 57	1 22	3 7	1 9	3 0	1 6	15 46	1 55	21 3	0 4	10 20	0 59	24 31	2 24	17 20	17 30	6 36	8 49	0 30					
S 9	10 39	14 2	4 54	2 26	2 10	22 14	1 25	2 49	1 9	2 55	1 6	15 48	1 54	21 3	0 4	10 20	0 59	24 31	2 24	17 24	17 31	6 38	8 51	0 30					
M10	11 0	16 50	4 34	3 13	2 5	22 30	1 28	2 30	1 9	2 50	1 6	15 50	1 54	21 4	0 4	10 20	0 59	24 31	2 24	17 27	17 32	6 41	8 52	0 30					
T 11	11 21	18 56	4 2	4 2	1 59	22 46	1 31	2 12	1 9	2 45	1 6	15 52	1 54	21 4	0 4	10 21	0 58	24 31	2 24	17 29	17 32	6 43	8 53	0 30					
W12	11 41	20 12	3 18	4 51	1 53	23 1	1 33	1 53	1 8	2 40	1 6	15 55	1 54	21 5	0 4	10 21	0 58	24 31	2 24	17 31	17 33	6 45	8 55	0 30					
T 13	12 2	20 32	2 25	5 40	1 46	23 15	1 36	1 34	1 8	2 35	1 7	15 57	1 54	21 6	0 4	10 21	0 58	24 31	2 24	17 32	17 34	6 47	8 56	0 29					
F 14	12 22	19 49	1 23	6 31	1 39	23 29	1 38	1 16	1 8	2 30	1 7	15 59	1 54	21 6	0 4	10 22	0 58	24 31	2 24	17 32	17 35	6 49	8 57	0 29					
S 15	12 42	18 4	0 15	7 22	1 31	23 42	1 41	0 57	1 8	2 24	1 7	16 1	1 54	21 7	0 4	10 22	0 58	24 31	2 24	17 32	17 36	6 51	8 59	0 29					
S 16	13 1	15 16	0s55	8 13	1 23	23 55	1 43	0 39	1 8	2 19	1 7	16 3	1 54	21 7	0 4	10 22	0 58	24 30	2 24	17 32	17 37	6 54	9 0	0 29					
M17	13 21	11 32	2 5	9 5	1 15	24 7	1 46	0 20	1 7	2 14	1 7	16 5	1 54	21 8	0 4	10 22	0 58	24 30	2 24	17 33	17 38	6 56	9 2	0 29					
T 18	13 40	7 2	3 9	9 58	1 6	24 18	1 48	0 2	1 7	2 9	1 7	16 7	1 53	21 8	0 4	10 23	0 58	24 30	2 24	17 34	17 39	6 58	9 3	0 29					
W19	13 59	1 59	4 2	10 50	0 56	24 29	1 51	0n17	1 7	2 5	1 7	16 9	1 53	21 9	0 4	10 23	0 58	24 30	2 24	17 36	17 39	7 0	9 4	0 29					
T 20	14 18	3n18	4 40	11 43	0 47	24 39	1 53	0 35	1 7	2 0	1 8	16 12	1 53	21 10	0 4	10 23	0 58	24 30	2 24	17 38	17 40	7 2	9 6	0 29					
F 21	14 37	8 26	4 59	12 35	0 37	24 48	1 55	0 54	1 7	1 55	1 8	16 14	1 53	21 10	0 4	10 23	0 58	24 30	2 24	17 41	17 41	7 4	9 7	0 29					
S 22	14 55	13 2	4 56	13 27	0 27	24 57	1 57	1 12	1 6	1 50	1 8	16 16	1 53	21 11	0 4	10 23	0 58	24 30	2 24	17 44	17 42	7 7	9 8	0 29					
S 23	15 13	16 45	4 32	14 18	0 16	25 5	1 59	1 31	1 6	1 45	1 8	16 18	1 53	21 11	0 4	10 23	0 58	24 30	2 24	17 47	17 43	7 9	9 9	0 29					
M24	15 31	19 17	3 51	15 9	0 6	25 12	2 1	1 49	1 6	1 40	1 8	16 20	1 53	21 12	0 4	10 24	0 58	24 30	2 24	17 49	17 44	7 11	9 11	0 29					
T 25	15 49	20 31	2 56	15 59	0n 5	25 19	2 3	2 7	1 6	1 35	1 8	16 22	1 53	21 13	0 4	10 24	0 58	24 30	2 24	17 50	17 45	7 13	9 12	0 29					
W26	16 6	20 26	1 52	16 48	0 15	25 24	2 5	2 26	1 5	1 31	1 8	16 24	1 53	21 13	0 4	10 24	0 58	24 30	2 24	17 51	17 45	7 15	9 13	0 29					
T 27	16 24	19 11	0 44	17 36	0 26	25 30	2 7	2 44	1 5	1 26	1 9	16 26	1 53	21 14	0 4	10 24	0 58	24 29	2 24	17 52	17 46	7 17	9 15	0 29					
F 28	16 40	16 57	0n25	18 22	0 36	25 34	2 9	3 2	1 5	1 21	1 9	16 28	1 53	21 14	0 4	10 24	0 58	24 29	2 24	17 52	17 47	7 20	9 16	0 28					
S 29	16 57	13 58	1 30	19 6	0 46	25 38	2 10	3 20	1 4	1 17	1 9	16 30	1 53	21 15	0 4	10 24	0 58	24 29	2 24	17 52	17 48	7 22	9 17	0 28					
S 30	17n13	10n25	2n29	19n48	0n56	25n41	2n12	3n38	1s 4	1s12	1s 9	16n32	1s53	21n16	0s 4	10n24	0n58	24n29	2n24	17n52	17n49	7s24	9n18	0n28					

ASTRODIENST EPHEMERIS for the year 1441

geocentric

MAY 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	15 10 1	18 ⁸ 52'57	21 ¹¹ 21	26 ⁸ 26	28 ¹¹ 46	12 ¹² 25	29 ¹¹ 50	22 ⁸ 15	5 ¹¹ 45	5°R33	19 ⁵ 23	9°R40	9 ⁹ 52	2 ¹¹ 3	22 ¹² 48	M 1
T 2	15 13 58	19°50'41	3 ¹¹ 18	28°34	29°54	13°10	0 ¹¹ 2	22°23	5°48	5 ¹¹ 32	19°24	9 ⁹ 34	9°49	2°10	22°51	T 2
W 3	15 17 54	20°48'22	15°11	0 ¹¹ 40	1 ¹² 3	13°55	0°14	22°31	5°52	5°32	19°25	9°25	9°46	2°17	22°55	W 3
T 4	15 21 51	21°46'02	27° 3	2°44	2°11	14°41	0°25	22°39	5°55	5°32	19°26	9°13	9°43	2°24	22°58	T 4
F 5	15 25 47	22°43'41	8 ¹¹ 55	4°46	3°20	15°26	0°37	22°46	5°59	5°32	19°27	9° 0	9°40	2°30	23° 2	F 5
S 6	15 29 44	23°41'19	20°51	6°46	4°28	16°11	0°48	22°54	6° 2	5°32	19°28	8°47	9°36	2°37	23° 5	S 6
S 7	15 33 41	24°38'55	2 ¹² 50	8°44	5°36	16°56	0°59	23° 2	6° 6	5°32	19°29	8°34	9°33	2°44	23° 9	S 7
M 8	15 37 37	25°36'30	14°55	10°39	6°44	17°41	1°11	23°10	6° 9	5°D32	19°30	8°23	9°30	2°51	23°12	M 8
T 9	15 41 34	26°34'04	27° 7	12°32	7°52	18°26	1°22	23°18	6°13	5°32	19°31	8°15	9°27	2°57	23°15	T 9
W10	15 45 30	27°31'36	9 ¹² 27	14°22	8°59	19°11	1°33	23°25	6°16	5°32	19°33	8° 9	9°24	3° 4	23°19	W10
T 11	15 49 27	28°29'08	21°58	16°10	10° 7	19°56	1°44	23°33	6°20	5°32	19°34	8° 5	9°20	3°11	23°22	T 11
F 12	15 53 23	29°26'39	4 ¹² 43	17°55	11°14	20°41	1°54	23°41	6°23	5°32	19°35	8°D 4	9°17	3°17	23°25	F 12
S 13	15 57 20	0 ¹² 49	17°44	19°36	12°21	21°26	2° 5	23°49	6°27	5°32	19°36	8° 4	9°14	3°24	23°29	S 13
S 14	16 1 17	1°21'38	1 ¹² 5	21°15	13°28	22°11	2°16	23°57	6°30	5°32	19°37	8°R 5	9°11	3°31	23°32	S 14
M15	16 5 13	2°19'07	14°49	22°51	14°35	22°56	2°26	24° 4	6°34	5°33	19°38	8° 4	9° 8	3°38	23°35	M15
T 16	16 9 10	3°16'35	28°56	24°25	15°41	23°40	2°37	24°12	6°37	5°33	19°39	8° 2	9° 5	3°44	23°38	T 16
W17	16 13 6	4°14'01	13 ¹² 27	25°55	16°48	24°25	2°47	24°20	6°41	5°33	19°41	7°57	9° 1	3°51	23°41	W17
T 18	16 17 3	5°11'28	28°17	27°22	17°54	25° 9	2°57	24°28	6°44	5°33	19°42	7°50	8°58	3°58	23°44	T 18
F 19	16 20 59	6° 8'53	13 ¹² 20	28°46	19° 0	25°54	3° 7	24°35	6°48	5°34	19°43	7°42	8°55	4° 4	23°47	F 19
S 20	16 24 56	7° 6'18	28°26	0 ¹² 7	20° 6	26°38	3°17	24°43	6°51	5°34	19°44	7°33	8°52	4°11	23°51	S 20
S 21	16 28 52	8° 3'42	13 ¹² 27	1°25	21°12	27°23	3°27	24°51	6°55	5°35	19°46	7°24	8°49	4°18	23°54	S 21
M22	16 32 49	9° 1'05	28°12	2°40	22°18	28° 7	3°37	24°58	6°59	5°35	19°47	7°17	8°46	4°25	23°56	M22
T 23	16 36 46	9°58'28	12 ¹² 34	3°52	23°23	28°51	3°47	25° 6	7° 2	5°36	19°48	7°13	8°42	4°31	23°59	T 23
W24	16 40 42	10°55'49	26°29	5° 0	24°28	29°36	3°56	25°14	7° 6	5°36	19°50	7°10	8°39	4°38	24° 2	W24
T 25	16 44 39	11°53'09	9 ¹² 56	6° 5	25°33	0 ¹² 20	4° 6	25°21	7° 9	5°37	19°51	7°D10	8°36	4°45	24° 5	T 25
F 26	16 48 35	12°50'29	22°57	7° 7	26°38	1° 4	4°15	25°29	7°13	5°37	19°52	7°10	8°33	4°52	24° 8	F 26
S 27	16 52 32	13°47'47	5 ¹² 35	8° 5	27°43	1°48	4°24	25°37	7°16	5°38	19°54	7°11	8°30	4°58	24°11	S 27
S 28	16 56 28	14°45'04	17°54	8°59	28°47	2°32	4°33	25°44	7°20	5°38	19°55	7°R12	8°26	5° 5	24°14	S 28
M29	17 0 25	15°42'20	0 ¹² 0	9°50	29°51	3°16	4°42	25°52	7°23	5°39	19°56	7°10	8°23	5°12	24°16	M29
T 30	17 4 21	16°39'36	11°57	10°38	0 ¹² 55	4° 0	4°51	25°59	7°27	5°40	19°58	7° 7	8°20	5°18	24°19	T 30
W31	17 8 18	17 ¹² 36'51	23 ¹² 50	11 ¹² 21	1 ¹² 59	4 ¹² 44	4°59	26°8	7°30	5 ¹² 40	19°59	7 ¹² 0	8°21	5 ¹² 25	24°22	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
M 1	17n29	6n31	3n21	20n29	1n 6	25n44	2n13	3n56	1s 4	1s 7	1s 9	16n34	1s52	21n16	0s 4	10n24	0n58	24n29	2n24	17n53	17n50	7s26	9n20	0n28					
T 2	17 45	2 24	4 3	21 7	1 15	25 45	2 15	4 14	1 3	1 3	1 9	16 37	1 52	21 17	0 4	10 24	0 58	24 29	2 24	17 55	17 51	7 28	9 21	0 28					
W 3	18 1	1s47	4 34	21 42	1 23	25 47	2 16	4 32	1 3	0 58	1 10	16 39	1 52	21 17	0 4	10 24	0 58	24 29	2 24	17 57	17 51	7 30	9 22	0 28					
T 4	18 16	5 53	4 54	22 16	1 31	25 47	2 17	4 50	1 3	0 54	1 10	16 41	1 52	21 18	0 3	10 24	0 58	24 29	2 24	18 0	17 52	7 33	9 23	0 28					
F 5	18 31	9 46	5 0	22 46	1 39	25 47	2 19	5 8	1 2	0 50	1 10	16 43	1 52	21 19	0 3	10 25	0 58	24 28	2 24	18 3	17 53	7 35	9 25	0 28					
S 6	18 45	13 18	4 54	23 14	1 45	25 46	2 20	5 26	1 2	0 45	1 10	16 45	1 52	21 19	0 3	10 25	0 58	24 28	2 24	18 7	17 54	7 37	9 26	0 28					
S 7	18 59	16 18	4 34	23 40	1 51	25 44	2 21	5 43	1 2	0 41	1 10	16 47	1 52	21 20	0 3	10 25	0 58	24 28	2 24	18 10	17 55	7 39	9 27	0 28					
M 8	19 13	18 38	4 2	24 2	1 57	25 42	2 21	6 1	1 1	0 37	1 11	16 49	1 52	21 21	0 3	10 24	0 58	24 28	2 24	18 13	17 56	7 41	9 28	0 28					
T 9	19 27	20 10	3 19	24 22	2 1	25 39	2 22	6 19	1 1	0 32	1 11	16 51	1 52	21 21	0 3	10 24	0 58	24 28	2 24	18 15	17 56	7 43	9 30	0 28					
W10	19 40	20 45	2 26	24 40	2 5	25 35	2 23	6 36	1 1	0 28	1 11	16 53	1 52	21 22	0 3	10 24	0 58	24 28	2 24	18 17	17 57	7 46	9 31	0 28					
T 11	19 53	20 19	1 24	24 55	2 8	25 31	2 24	6 53	1 0	0 24	1 11	16 55	1 52	21 22	0 3	10 24	0 58	24 28	2 24	18 18	17 58	7 48	9 32	0 28					
F 12	20 5	18 51	0 18	25 8	2 11	25 26	2 24	7 11	1 0	0 20	1 11	16 57	1 52	21 23	0 3	10 24	0 58	24 27	2 24	18 18	17 59	7 50	9 33	0 28					
S 13	20 18	16 22	0s51	25 18	2 12	25 20	2 24	7 28	0 59	0 16	1 11	16 58	1 52	21 24	0 3	10 24	0 58	24 27	2 24	18 18	18 0	7 52	9 34	0 27					
S 14	20 30	12 59	1 59	25 26	2 13	25 14	2 25	7 45	0 59	0 12	1 12	17 0	1 52	21 24	0 3	10 24	0 58	24 27	2 24	18 18	18 1	7 54	9 35	0 27					
M15	20 41	8 48	3 2	25 32	2 13	25 7	2 25	8 2	0 59	0 8	1 12	17 2	1 52	21 25	0 3	10 24	0 58	24 27	2 24	18 18	18 2	7 56	9 36	0 27					
T 16	20 52	4 2	3 36	25 36	2 12	24 59	2 25	8 19	0 58	0 4	1 12	17 4	1 52	21 25	0 3	10 24	0 58	24 27	2 25	18 19	18 2	7 59	9 38	0 27					
W17	21 3	1n 4	4 37	25 37	2 10	24 51	2 25	8 36	0 58	0n 0	1 12	17 6	1 52	21 26	0 3	10 24	0 58	24 27	2 25	18 20	18 3	8 1	9 39	0 27					
T 18	21 14	6 14	5 0	25 37	2 8	24 42	2 25	8 52	0 57	0 4	1 12	17 8	1 52	21 27	0 3	10 24	0 58	24 27	2 25	18 22	18 4	8 3	9 40	0 27					
F 19	21 24	11 5	5 2	25 35	2 5	24 32	2 24	9 9	0 57	0 8	1 13	17 10	1 52	21 27	0 3	10 24	0 58	24 26	2 25	18 24	18 5	8 5	9 41	0 27					
S 20	21 34	15 15	4 44	25 32	2 1	24 22	2 24	9 26	0 56	0 12	1 13	17 12	1 52	21 28	0 3	10 23	0 58	24 26	2 25	18 26	18 6	8 7	9 42	0 27					
S 21	21 43	18 24	4 6	25 26	1 56	24 12	2 23	9 42	0 56	0 16	1 13	17 14	1 52	21 28	0 3	10 23	0 58	24 26	2 25	18 29	18 7	8 9	9 43	0 27					
M22	21 52	20 17	3 13	25 20	1 51	24 0	2 23	9 58	0 55	0 19	1 13	17 16	1 52	21 29	0 3	10 23	0 58	24 26	2 25	18 30	18 7	8 12	9 44	0 27					
T 23	22 1	20 48	2 8	25 12	1 44	23 49	2 22	10 15	0 55	0 23	1 14	17 17	1 52	21 30	0 3	10 23	0 58	24 26	2 25	18 31	18 8	8 14	9 45	0 27					
W24	22 9	19 59	0 57	25 2	1 37	23 36	2 21	10 31	0 55	0 27	1 14	17 19	1 52	21 30	0 3	10 23	0 58	24 26	2 25	18 32	18 9	8 16	9 46	0 27					
T 25	22 17	18 3	0n15	24 52	1 30	23 23	2 20	10 47	0 54	0 30	1 14	17 21	1 52	21 31	0 3	10 22	0 58	24 25	2 25	18 32	18 10	8 18	9 47	0 27					
F 26	22 24	15 13	1 24	24 40	1 21	23 10	2 19	11 3	0 54	0 34	1 14	17 23	1 52	21 31	0 3	10 22	0 58	24 25	2 25	18 32	18 11	8 20	9 48	0 27					
S 27	22 31	11 46	2 26	24 28	1 12	22 56	2 18	11 18	0 53	0 37	1 14	17 25	1 52	21 32	0 3	10 22	0 58	24 25	2 25	18 32	18 12	8 22	9 49	0 27					
S 28	22 38	7 52	3 21	24 14	1 2	22 41	2 16	11 34	0 53	0 40	1 15	17 26	1 52	21 33	0 3	10 22	0 58	24 25	2 25	18 32	18 12	8 25	9 50	0 27					
M29	22 44	3 45	4 5	24 0	0 52	22 26	2 15	11 49	0 52	0 44	1 15	17 28	1 52	21 33	0 3	10 21	0 57	24 25	2 25	18 32	18 13	8 27	9 51	0 27					
T 30	22 50	0s28	4 38	23 45	0 50	22 11	2 13	12 5	0 52	0 47	1 15	17 30	1 52	21 34	0 3	10 21	0 57	24 25	2 25	18 33	18 14	8 29	9 52	0 26					
W31	22n56	4s38	4n59	23n30	0m28	21n55	2n11	12n20	0s51	0n50	1s15	17n32	1s52	21n34	0s 3	10n21	0n57	24n24	2n25	18n34	18n15	8s31	9n53	0n26					

ASTRODIENST EPHEMERIS for the year 1441

geocentric

JUNE 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	17 12 15	18 ^{II} 34'05	5 ^{III} 42	12 [☾] 0	3 [♂] 2	5 [♂] 27	5 [♂] 8	26 [♂] 14	7 ^{II} 34	5 [♂] 41	20 [☾] 1	6 [♂] R55	8 [♂] 14	5 ^{III} 32	24 [♀] 24	T 1
F 2	17 16 11	19°31'18	17°36	12°36	4° 5	6°11	5°16	26°22	7°37	5°42	20° 2	6 [♂] Ω47	8°11	5°39	24°27	F 2
S 3	17 20 8	20°28'31	29°36	13° 7	5° 8	6°55	5°25	26°29	7°41	5°43	20° 4	6°38	8° 7	5°45	24°29	S 3
S 4	17 24 4	21°25'43	11 [♂] 43	13°34	6°11	7°38	5°33	26°36	7°44	5°44	20° 5	6°30	8° 4	5°52	24°32	S 4
M 5	17 28 1	22°22'55	23°59	13°57	7°13	8°22	5°41	26°44	7°48	5°44	20° 6	6°23	8° 1	5°59	24°34	M 5
T 6	17 31 57	23°20'06	6 [♂] 24	14°15	8°15	9° 5	5°48	26°51	7°51	5°45	20° 8	6°18	7°58	6° 6	24°36	T 6
W 7	17 35 54	24°17'18	18°59	14°28	9°17	9°48	5°56	26°58	7°55	5°46	20° 9	6°14	7°55	6°12	24°39	W 7
T 8	17 39 50	25°14'29	1 [♂] 46	14°38	10°18	10°32	6° 4	27° 5	7°58	5°47	20°11	6°D13	7°52	6°19	24°41	T 8
F 9	17 43 47	26°11'39	14°45	14°R42	11°19	11°15	6°11	27°13	8° 1	5°48	20°13	6°13	7°48	6°26	24°43	F 9
S 10	17 47 44	27° 8'50	27°58	14°42	12°20	11°58	6°18	27°20	8° 5	5°49	20°14	6°14	7°45	6°32	24°46	S 10
S 11	17 51 40	28° 6'01	11 [♂] 26	14°37	13°20	12°41	6°25	27°27	8° 8	5°50	20°16	6°16	7°42	6°39	24°48	S 11
M12	17 55 37	29° 3'12	25°11	14°28	14°20	13°24	6°32	27°34	8°12	5°51	20°17	6°R17	7°39	6°46	24°50	M12
T 13	17 59 33	0 [☾] 0'23	9°Y13	14°15	15°20	14° 7	6°39	27°41	8°15	5°53	20°19	6°16	7°36	6°53	24°52	T 13
W14	18 3 30	0°57'34	23°31	13°57	16°19	14°50	6°46	27°48	8°18	5°54	20°20	6°15	7°32	6°59	24°54	W14
T 15	18 7 26	1°54'45	8 [♂] 2	13°35	17°18	15°33	6°52	27°55	8°22	5°55	20°22	6°12	7°29	7° 6	24°56	T 15
F 16	18 11 23	2°51'57	22°43	13°10	18°17	16°15	6°59	28° 2	8°25	5°56	20°23	6° 7	7°26	7°13	24°58	F 16
S 17	18 15 19	3°49'09	7 ^{II} 27	12°41	19°15	16°58	7° 5	28° 9	8°28	5°57	20°25	6° 3	7°23	7°19	25° 0	S 17
S 18	18 19 16	4°46'21	22° 6	12°10	20°13	17°41	7°11	28°16	8°32	5°59	20°27	5°58	7°20	7°26	25° 2	S 18
M19	18 23 13	5°43'33	6 [☾] 34	11°36	21°10	18°23	7°17	28°23	8°35	6° 0	20°28	5°55	7°17	7°33	25° 3	M19
T 20	18 27 9	6°40'46	20°45	11° 0	22° 7	19° 6	7°22	28°29	8°38	6° 1	20°30	5°53	7°13	7°40	25° 5	T 20
W21	18 31 6	7°37'58	4 [♂] 24	10°23	23° 4	19°48	7°28	28°36	8°41	6° 2	20°31	5°D52	7°10	7°46	25° 7	W21
T 22	18 35 2	8°35'10	17°59	9°45	24° 0	20°30	7°33	28°43	8°44	6° 4	20°33	5°52	7° 7	7°53	25° 8	T 22
F 23	18 38 59	9°32'22	1 [♂] 1	9° 7	24°55	21°13	7°39	28°49	8°48	6° 5	20°35	5°54	7° 4	8° 0	25°10	F 23
S 24	18 42 55	10°29'34	13°42	8°29	25°50	21°55	7°44	28°56	8°51	6° 7	20°36	5°55	7° 1	8° 7	25°12	S 24
S 25	18 46 52	11°26'47	26° 4	7°53	26°45	22°37	7°48	29° 2	8°54	6° 8	20°38	5°57	6°58	8°13	25°13	S 25
M26	18 50 48	12°23'59	8 [♂] 12	7°19	27°39	23°19	7°53	29° 9	8°57	6° 9	20°40	5°R57	6°54	8°20	25°14	M26
T 27	18 54 45	13°21'11	20°11	6°47	28°32	24° 1	7°58	29°15	9° 0	6°11	20°41	5°57	6°51	8°27	25°16	T 27
W28	18 58 42	14°18'23	2 ^{III} 4	6°18	29°25	24°43	8° 2	29°21	9° 3	6°12	20°43	5°56	6°48	8°33	25°17	W28
T 29	19 2 38	15°15'36	13°58	5°53	0 [♂] 17	25°24	8° 6	29°28	9° 6	6°14	20°44	5°54	6°45	8°40	25°18	T 29
F 30	19 6 35	16°12'48	25 ^{III} 55	5°32	1 [♂] 9	26° 6	8°Y10	29°♂34	9 ^{II} 9	6°16	20°46	5°Ω52	6°Ω42	8 ^{III} 47	25°Y20	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	decl	lat
T 1	23n 1	8s38	5n 7	23n14	0n16	21n38	2n 9	12n35	0s50	0n53	1s16	17n33	1s52	21n35	0s 3	10n21	0n57	24n24	2n25	18n36	18n16	8s33	9n54	0n26			
F 2	23 6	12 18	5 2	22 58	0 3	21 21	2 7	12 50	0 50	0 56	1 16	17 35	1 52	21 36	0 3	10 20	0 57	24 24	2 25	18 38	18 17	8 35	9 55	0 26			
S 3	23 10	15 31	4 43	22 41	0s11	21 4	2 5	13 5	0 49	0 59	1 16	17 37	1 52	21 36	0 3	10 20	0 57	24 24	2 25	18 40	18 17	8 38	9 55	0 26			
S 4	23 14	18 6	4 12	22 24	0 25	20 46	2 3	13 20	0 49	1 2	1 16	17 38	1 52	21 37	0 3	10 20	0 57	24 24	2 25	18 42	18 18	8 40	9 56	0 26			
M 5	23 17	19 54	3 28	22 7	0 40	20 28	2 0	13 34	0 48	1 5	1 17	17 40	1 52	21 37	0 3	10 19	0 57	24 23	2 25	18 44	18 19	8 42	9 57	0 26			
T 6	23 21	20 47	2 34	21 50	0 55	20 9	1 58	13 49	0 48	1 8	1 17	17 42	1 52	21 38	0 3	10 19	0 57	24 23	2 25	18 45	18 20	8 44	9 58	0 26			
W 7	23 23	20 39	1 32	21 34	1 10	19 50	1 55	14 3	0 47	1 11	1 17	17 43	1 52	21 38	0 3	10 19	0 57	24 23	2 25	18 46	18 21	8 46	9 59	0 26			
T 8	23 25	19 26	0 24	21 17	1 26	19 31	1 52	14 17	0 47	1 14	1 17	17 45	1 52	21 39	0 3	10 18	0 57	24 23	2 25	18 46	18 21	8 48	10 0	0 26			
F 9	23 27	17 12	0s46	21 1	1 42	19 11	1 49	14 31	0 46	1 17	1 18	17 47	1 52	21 40	0 3	10 18	0 57	24 23	2 25	18 46	18 22	8 51	10 0	0 26			
S 10	23 29	14 1	1 55	20 45	1 58	18 51	1 46	14 45	0 45	1 19	1 18	17 48	1 52	21 40	0 3	10 17	0 57	24 22	2 25	18 46	18 23	8 53	10 1	0 26			
S 11	23 30	10 4	3 0	20 29	2 14	18 30	1 42	14 59	0 45	1 22	1 18	17 50	1 52	21 41	0 3	10 17	0 57	24 22	2 25	18 46	18 24	8 55	10 2	0 26			
M12	23 30	5 31	3 55	20 14	2 30	18 9	1 39	15 12	0 44	1 24	1 18	17 51	1 52	21 41	0 3	10 17	0 57	24 22	2 25	18 46	18 25	8 57	10 3	0 26			
T 13	23 31	0 35	4 37	20 0	2 46	17 48	1 35	15 26	0 44	1 27	1 19	17 53	1 52	21 42	0 3	10 16	0 57	24 22	2 25	18 46	18 26	8 59	10 3	0 26			
W14	23 30	4n27	5 4	19 46	3 1	17 27	1 31	15 39	0 43	1 29	1 19	17 54	1 52	21 42	0 3	10 16	0 57	24 22	2 25	18 46	18 26	9 1	10 4	0 26			
T 15	23 30	9 19	5 11	19 34	3 16	17 5	1 27	15 52	0 42	1 32	1 19	17 56	1 52	21 43	0 3	10 15	0 57	24 22	2 26	18 47	18 27	9 3	10 5	0 26			
F 16	23 29	13 41	4 59	19 22	3 30	16 43	1 23	16 5	0 42	1 34	1 19	17 57	1 52	21 43	0 3	10 15	0 57	24 21	2 26	18 48	18 28	9 6	10 5	0 25			
S 17	23 27	17 14	4 26	19 11	3 44	16 20	1 19	16 18	0 41	1 36	1 20	17 59	1 52	21 44	0 3	10 14	0 57	24 21	2 26	18 49	18 29	9 8	10 6	0 25			
S 18	23 25	19 40	3 36	19 2	3 57	15 58	1 14	16 31	0 40	1 38	1 20	18 0	1 52	21 44	0 3	10 14	0 57	24 21	2 26	18 50	18 30	9 10	10 7	0 25			
M19	23 23	20 48	2 33	18 53	4 8	15 35	1 10	16 43	0 40	1 40	1 20	18 2	1 52	21 45	0 3	10 13	0 57	24 21	2 26	18 51	18 30	9 12	10 7	0 25			
T 20	23 20	20 33	1 22	18 46	4 18	15 12	1 5	16 55	0 39	1 42	1 20	18 3	1 53	21 45	0 3	10 13	0 57	24 21	2 26	18 51	18 31	9 14	10 8	0 25			
W21	23 17	19 4	0 7	18 40	4 27	14 49	1 0	17 7	0 38	1 44	1 21	18 5	1 53	21 46	0 3	10 12	0 57	24 20	2 26	18 52	18 32	9 16	10 8	0 25			
T 22	23 14	16 32	1n 6	18 35	4 35	14 25	0 55	17 19	0 38	1 46	1 21	18 6	1 53	21 46	0 3	10 12	0 57	24 20	2 26	18 52	18 33	9 18	10 9	0 25			
F 23	23 10	13 14	2 14	18 31	4 41	14 2	0 50	17 31	0 37	1 48	1 21	18 7	1 53	21 47	0 3	10 11	0 57	24 20	2 26	18 51	18 34	9 21	10 9	0 25			
S 24	23 6	9 24	3 13	18 29	4 46	13 38	0 44	17 43	0 36	1 50	1 22	18 9	1 53	21 47	0 3	10 11	0 57	24 20	2 26	18 51	18 34	9 23	10 10	0 25			
S 25	23 1	5 16	4 2	18 28	4 49	13 14	0 38	17 54	0 36	1 51	1 22	18 10	1 53	21 48	0 3	10 10	0 57	24 20	2 26	18 51	18 35	9 25	10 10	0 25			
M26	22 56	1 0	4 38	18 29	4 50	12 50	0 33	18 6	0 35	1 53	1 22	18 11	1 53	21 48	0 3	10 10	0 57	24 19	2 26	18 50	18 36	9 27	10 11	0 25			
T 27	22 50	3s14	5 3	18 31	4 49	12 26	0 27	18 17	0 34	1 54	1 22	18 13	1 53	21 49	0 3	10 9	0 57	24 19	2 26	18 50	18 37	9 29	10 11	0 25			
W28	22 44	7 19	5 14	18 35	4 47	12 2	0 20	18 28	0 34	1 56	1 23	18 14	1 53	21 49	0 3	10 9	0 57	24 19	2 26	18 51	18 38	9 31	10 12	0 25			
T 29	22 38	11 7	5 11	18 39	4 44	11 37	0 14	18 38	0 33	1 57	1 23	18 15	1 53	21 50	0 3	10 8	0 57	24 19	2 26	18 51	18 38	9 34	10 12	0 25			
F 30	22n31	14s30	4n56	18n45	4s39	11n13	0n 8	18n49	0s32	1n58	1s23	18n16	1s53	21n50	0s 3	10n 7	0n57	24n19	2n26	18n52	18n39	9s36	10n13	0n25			

ASTRODIENST EPHEMERIS for the year 1441

geocentric

JULY 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 10 31	17°10'01	7°59	5°R15	2°m 0	26°8'48	8°Y14	29°8'40	9°II12	6°m17	20°8'48	5°R49	6°Ω38	8°m54	25°Y21	S 1
S 2	19 14 28	18° 7'14	20°14	5°8 4	2°50	27°29	8°17	29°46	9°15	6°19	20°49	5°Ω46	6°35	9° 0	25°22	S 2
M 3	19 18 24	19° 4'28	2°340	4°57	3°40	28°11	8°21	29°52	9°18	6°20	20°51	5°44	6°32	9° 7	25°23	M 3
T 4	19 22 21	20° 1'42	15°20	4°D56	4°29	28°52	8°24	29°58	9°21	6°22	20°53	5°42	6°29	9°14	25°24	T 4
W 5	19 26 17	20°58'57	28°14	5° 0	5°17	29°33	8°27	0°II 4	9°24	6°24	20°54	5°41	6°26	9°21	25°25	W 5
T 6	19 30 14	21°56'12	11°22	5°11	6° 4	0°II15	8°30	0°10	9°27	6°25	20°56	5°D41	6°23	9°27	25°26	T 6
F 7	19 34 11	22°53'28	24°43	5°27	6°51	0°56	8°33	0°16	9°29	6°27	20°58	5°42	6°19	9°34	25°27	F 7
S 8	19 38 7	23°50'44	8°18	5°49	7°36	1°37	8°35	0°21	9°32	6°29	20°59	5°43	6°16	9°41	25°27	S 8
S 9	19 42 4	24°48'02	22° 4	6°17	8°21	2°18	8°38	0°27	9°35	6°31	21° 1	5°44	6°13	9°47	25°28	S 9
M10	19 46 0	25°45'20	6°Y 1	6°51	9° 5	2°59	8°40	0°33	9°38	6°32	21° 3	5°44	6°10	9°54	25°29	M10
T 11	19 49 57	26°42'40	20° 6	7°30	9°48	3°40	8°42	0°38	9°40	6°34	21° 4	5°45	6° 7	10° 1	25°30	T 11
W12	19 53 53	27°40'00	4°B19	8°16	10°30	4°20	8°43	0°44	9°43	6°36	21° 6	5°R45	6° 3	10° 8	25°30	W12
T 13	19 57 50	28°37'22	18°37	9° 8	11°11	5° 1	8°45	0°49	9°46	6°38	21° 8	5°44	6° 0	10°14	25°31	T 13
F 14	20 1 46	29°34'45	2°II56	10° 5	11°51	5°41	8°46	0°54	9°48	6°40	21° 9	5°44	5°57	10°21	25°31	F 14
S 15	20 5 43	0°Ω32'09	17°14	11° 8	12°30	6°22	8°47	1° 0	9°51	6°41	21°11	5°43	5°54	10°28	25°31	S 15
S 16	20 9 40	1°29'35	1°826	12°16	13° 8	7° 2	8°48	1° 5	9°53	6°43	21°12	5°43	5°51	10°34	25°32	S 16
M17	20 13 36	2°27'01	15°28	13°30	13°45	7°43	8°49	1°10	9°56	6°45	21°14	5°42	5°48	10°41	25°32	M17
T 18	20 17 33	3°24'28	29°17	14°49	14°20	8°23	8°50	1°15	9°58	6°47	21°16	5°D42	5°44	10°48	25°32	T 18
W19	20 21 29	4°21'57	12°Ω50	16°13	14°55	9° 3	8°50	1°20	10° 0	6°49	21°17	5°42	5°41	10°55	25°32	W19
T 20	20 25 26	5°19'26	26° 4	17°42	15°28	9°43	8°R50	1°25	10° 3	6°51	21°19	5°R42	5°38	11° 1	25°33	T 20
F 21	20 29 22	6°16'56	9°m 0	19°15	15°59	10°23	8°50	1°29	10° 5	6°53	21°21	5°42	5°35	11° 8	25°R33	F 21
S 22	20 33 19	7°14'27	21°38	20°53	16°29	11° 3	8°50	1°34	10° 7	6°55	21°22	5°42	5°32	11°15	25°33	S 22
S 23	20 37 15	8°11'59	4°Ω 0	22°34	16°58	11°43	8°49	1°39	10°10	6°57	21°24	5°42	5°29	11°22	25°33	S 23
M24	20 41 12	9° 9'32	16° 9	24°19	17°25	12°22	8°49	1°43	10°12	6°59	21°25	5°42	5°25	11°28	25°32	M24
T 25	20 45 9	10° 7'06	28° 8	26° 8	17°51	13° 2	8°48	1°48	10°14	7° 1	21°27	5°41	5°22	11°35	25°32	T 25
W26	20 49 5	11° 4'41	10°m 2	27°59	18°15	13°41	8°47	1°52	10°16	7° 3	21°28	5°D41	5°19	11°42	25°32	W26
T 27	20 53 2	12° 2'17	21°56	29°53	18°37	14°21	8°46	1°56	10°18	7° 5	21°30	5°41	5°16	11°48	25°32	T 27
F 28	20 56 58	12°59'53	3°754	1°Ω49	18°57	15° 0	8°44	2° 1	10°20	7° 7	21°32	5°42	5°13	11°55	25°31	F 28
S 29	21 0 55	13°57'31	16° 0	3°47	19°16	15°39	8°43	2° 5	10°22	7° 9	21°33	5°42	5° 9	12° 2	25°31	S 29
S 30	21 4 51	14°55'10	28°18	5°46	19°33	16°18	8°41	2° 9	10°24	7°11	21°35	5°43	5° 6	12° 9	25°31	S 30
M31	21 8 48	15°Ω52'50	10°852	7°Ω47	19°m48	16°II57	8°Y39	2°II13	10°II26	7°m13	21°836	5°Ω44	5°Ω 3	12°m15	25°Y30	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	22n24	17s19	4n27	18n52	4s32	10n48	0n 1	18n59	0s31	2n 0	1s24	18n18	1s53	21n51	0s 3	10n 7
S 2	22 17	19 24	3 45	19 0	4 25	10 24	0s 6	19 10	0 31	2 1	1 24	18 19	1 53	21 51	0 3	10 6
M 3	22 9	20 37	2 52	19 10	4 16	9 59	0 13	19 20	0 30	2 2	1 24	18 20	1 54	21 52	0 3	10 6
T 4	22 1	20 48	1 50	19 20	4 5	9 35	0 20	19 29	0 29	2 3	1 24	18 21	1 54	21 52	0 3	10 5
W 5	21 52	19 54	0 41	19 31	3 54	9 10	0 28	19 39	0 29	2 4	1 25	18 22	1 54	21 53	0 3	10 4
T 6	21 43	17 55	0s31	19 42	3 43	8 46	0 35	19 49	0 28	2 5	1 25	18 23	1 54	21 53	0 3	10 4
F 7	21 34	14 57	1 43	19 54	3 30	8 21	0 43	19 58	0 27	2 6	1 25	18 25	1 54	21 53	0 3	10 3
S 8	21 24	11 7	2 51	20 7	3 16	7 57	0 51	20 7	0 26	2 6	1 26	18 26	1 54	21 54	0 3	10 2
S 9	21 14	6 40	3 49	20 19	3 3	7 33	0 59	20 16	0 25	2 7	1 26	18 27	1 54	21 54	0 3	10 2
M10	21 3	1 49	4 35	20 32	2 48	7 8	1 8	20 25	0 25	2 7	1 26	18 28	1 54	21 55	0 3	10 1
T 11	20 53	3n10	5 5	20 45	2 34	6 44	1 16	20 33	0 24	2 8	1 26	18 29	1 54	21 55	0 3	10 0
W12	20 41	8 2	5 16	20 57	2 19	6 20	1 25	20 42	0 23	2 8	1 27	18 30	1 54	21 56	0 3	10 0
T 13	20 30	12 28	5 9	21 9	2 3	5 57	1 34	20 50	0 22	2 9	1 27	18 31	1 55	21 56	0 3	9 59
F 14	20 18	16 12	4 42	21 20	1 48	5 33	1 43	20 58	0 22	2 9	1 27	18 32	1 55	21 56	0 3	9 58
S 15	20 6	18 57	3 57	21 30	1 33	5 9	1 52	21 6	0 21	2 9	1 28	18 33	1 55	21 57	0 3	9 58
S 16	19 53	20 31	2 59	21 39	1 18	4 46	2 2	21 13	0 20	2 9	1 28	18 34	1 55	21 57	0 3	9 57
M17	19 40	20 48	1 50	21 47	1 3	4 23	2 12	21 21	0 19	2 9	1 28	18 35	1 55	21 57	0 3	9 56
T 18	19 27	19 47	0 36	21 53	0 48	4 0	2 21	21 28	0 18	2 9	1 29	18 36	1 55	21 58	0 3	9 55
W19	19 14	17 38	0n39	21 58	0 34	3 38	2 31	21 35	0 17	2 9	1 29	18 36	1 55	21 58	0 3	9 55
T 20	19 0	14 36	1 51	22 0	0 20	3 16	2 42	21 42	0 17	2 9	1 29	18 37	1 55	21 59	0 3	9 54
F 21	18 45	10 55	2 54	22 1	0 7	2 54	2 52	21 49	0 16	2 9	1 29	18 38	1 55	21 59	0 3	9 53
S 22	18 31	6 49	3 48	21 59	0n 6	2 33	3 3	21 55	0 15	2 8	1 30	18 39	1 56	21 59	0 3	9 53
S 23	18 16	2 32	4 30	21 55	0 18	2 12	3 13	22 1	0 14	2 8	1 30	18 40	1 56	22 0	0 3	9 52
M24	18 1	1s46	4 59	21 48	0 30	1 51	3 24	22 8	0 13	2 7	1 30	18 41	1 56	22 0	0 3	9 51
T 25	17 46	5 57	5 14	21 39	0 41	1 31	3 35	22 13	0 12	2 7	1 31	18 41	1 56	22 0	0 3	9 50
W26	17 30	9 52	5 16	21 27	0 51	1 11	3 47	22 19	0 12	2 6	1 31	18 42	1 56	22 1	0 3	9 49
T 27	17 14	13 24	5 4	21 13	1 0	0 52	3 58	22 25	0 11	2 5	1 31	18 43	1 56	22 1	0 3	9 49
F 28	16 58	16 25	4 39	20 56	1 9	0 33	4 9	22 30	0 10	2 4	1 31	18 43	1 56	22 1	0 3	9 48
S 29	16 41	18 46	4 2	20 36	1 16	0 15	4 21	22 35	0 9	2 4	1 32	18 44	1 57	22 1	0 3	9 47
S 30	16 24	20 17	3 13	20 13	1 23	0s 2	4 33	22 40	0 8	2 3	1 32	18 45	1 57	22 2	0 3	9 46
M31	16n 7	20s51	2n13	19n48	1n29	0s19	4s45	22n45	0s 7	2n 2	1s32	18n45	1s57	22n 2	0s 3	9n46

Julian Day Number = 2247564.5, Delta T = 06m44s

Ecliptic obliquity = 23°30'37", Nutation = - 0°00'13", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°56'55", Lahiri = 16°03'56" Julian Calendar 1 July 1441 == Greg. Calendar 10 July 1441

ASTRODIENST EPHEMERIS for the year 1441

geocentric

AUGUST 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 12 44	16°50'32	23°34'44	9°47'20	20°0'17	17°36'36	8°R37	2°11'16	10°11'28	7°15'15	21°38'38	5°45'45	5°0'0	12°22'22	25°R29	T 1
W 2	21 16 41	17°48'14	6°56'56	11°49'20	20°11'18	18°15'18	8°Y34	2°20'20	10°30'30	7°18'18	21°39'39	5°R45	4°57'57	12°29'29	25°Y29	W 2
T 3	21 20 38	18°45'58	20°26'26	13°50'50	20°20'20	18°54'54	8°32'32	2°24'24	10°32'32	7°20'20	21°41'41	5°45'45	4°54'54	12°36'36	25°28'28	T 3
F 4	21 24 34	19°43'43	4°13'13	15°51'51	20°26'26	19°32'32	8°29'29	2°27'27	10°33'33	7°22'22	21°42'42	5°44'44	4°50'50	12°42'42	25°27'27	F 4
S 5	21 28 31	20°41'30	18°15'15	17°52'52	20°31'31	20°11'11	8°26'26	2°31'31	10°35'35	7°24'24	21°44'44	5°42'42	4°47'47	12°49'49	25°27'27	S 5
S 6	21 32 27	21°39'18	2°Y27	19°52'52	20°R32	20°49'49	8°23'23	2°34'34	10°37'37	7°26'26	21°45'45	5°40'40	4°44'44	12°56'56	25°26'26	S 6
M 7	21 36 24	22°37'08	16°46'46	21°51'51	20°32'32	21°28'28	8°19'19	2°38'38	10°38'38	7°28'28	21°47'47	5°38'38	4°41'41	13°2'2	25°25'25	M 7
T 8	21 40 20	23°34'59	1°8'6	23°50'50	20°30'30	22°6'6	8°16'16	2°41'41	10°40'40	7°30'30	21°48'48	5°36'36	4°38'38	13°9'9	25°24'24	T 8
W 9	21 44 17	24°32'53	15°24'24	25°48'48	20°25'25	22°44'44	8°12'12	2°44'44	10°41'41	7°33'33	21°50'50	5°35'35	4°35'35	13°16'16	25°23'23	W 9
T 10	21 48 13	25°30'48	29°37'37	27°44'44	20°17'17	23°22'22	8°8'8	2°47'47	10°43'43	7°35'35	21°51'51	5°D35	4°31'31	13°23'23	25°22'22	T 10
F 11	21 52 10	26°28'46	13°11'43	29°40'40	20°7'7	24°0'0	8°4'4	2°50'50	10°44'44	7°37'37	21°52'52	5°36'36	4°28'28	13°29'29	25°21'21	F 11
S 12	21 56 7	27°26'45	27°39'39	1°11'34	19°55'55	24°37'37	8°0'0	2°53'53	10°46'46	7°39'39	21°54'54	5°37'37	4°25'25	13°36'36	25°20'20	S 12
S 13	22 0 3	28°24'46	11°26'26	3°27'27	19°41'41	25°15'15	7°56'56	2°55'55	10°47'47	7°41'41	21°55'55	5°39'39	4°22'42	13°43'43	25°18'18	S 13
M14	22 4 0	29°22'50	25°1'1	5°19'19	19°24'24	25°53'53	7°51'51	2°58'58	10°48'48	7°44'44	21°57'57	5°40'40	4°19'19	13°49'49	25°17'17	M14
T 15	22 7 56	0°11'20	8°12'24	7°10'10	19°5'5	26°30'30	7°46'46	3°0'0	10°50'50	7°46'46	21°58'58	5°R40	4°15'15	13°56'56	25°16'16	T 15
W16	22 11 53	1°19'01	21°35'35	8°59'59	18°44'44	27°7'7	7°41'41	3°3'3	10°51'51	7°48'48	21°59'59	5°39'39	4°12'12	14°3'3	25°14'14	W16
T 17	22 15 49	2°17'09	4°11'32	10°47'47	18°21'21	27°45'45	7°36'36	3°5'5	10°52'52	7°50'50	22°1'1	5°37'37	4°9'9	14°10'10	25°13'13	T 17
F 18	22 19 46	3°15'19	17°15'15	12°34'34	17°55'55	28°22'22	7°31'31	3°7'7	10°53'53	7°52'52	22°2'2	5°33'33	4°6'6	14°16'16	25°11'11	F 18
S 19	22 23 42	4°13'31	29°45'45	14°20'20	17°28'28	28°59'59	7°25'25	3°9'9	10°54'54	7°55'55	22°3'3	5°29'29	4°3'3	14°23'23	25°10'10	S 19
S 20	22 27 39	5°11'45	12°2'2	16°5'5	16°59'59	29°36'36	7°20'20	3°11'11	10°55'55	7°57'57	22°4'4	5°24'24	4°0'0	14°30'30	25°8'8	S 20
M21	22 31 36	6°10'00	24°8'8	17°48'48	16°28'28	0°12'12	7°14'14	3°13'13	10°56'56	7°59'59	22°6'6	5°19'19	3°56'56	14°37'37	25°7'7	M21
T 22	22 35 32	7°8'16	6°11'6	19°30'30	15°55'55	0°49'49	7°8'8	3°15'15	10°57'57	8°1'1	22°7'7	5°14'14	3°53'53	14°43'43	25°5'5	T 22
W23	22 39 29	8°6'34	17°59'59	21°11'11	15°22'22	1°25'25	7°2'2	3°17'17	10°58'58	8°4'4	22°8'8	5°11'11	3°50'50	14°50'50	25°3'3	W23
T 24	22 43 25	9°4'54	29°51'51	22°51'51	14°47'47	2°2'2	6°56'56	3°18'18	10°59'59	8°6'6	22°9'9	5°9'9	3°47'47	14°57'57	25°2'2	T 24
F 25	22 47 22	10°3'16	11°11'47	24°30'30	14°11'11	2°38'38	6°50'50	3°20'20	10°59'59	8°8'8	22°11'11	5°D9	3°44'44	15°3'3	25°0'0	F 25
S 26	22 51 18	11°1'39	23°51'51	26°7'7	13°35'35	3°14'14	6°43'43	3°21'21	11°0'0	8°10'10	22°12'12	5°9'9	3°40'40	15°10'10	24°58'58	S 26
S 27	22 55 15	12°0'03	6°3'9	27°44'44	12°58'58	3°50'50	6°37'37	3°22'22	11°1'1	8°13'13	22°13'13	5°11'11	3°37'37	15°17'17	24°56'56	S 27
M28	22 59 11	12°58'30	18°45'45	29°19'19	12°21'21	4°26'26	6°30'30	3°23'23	11°1'1	8°15'15	22°14'14	5°13'13	3°34'34	15°24'24	24°54'54	M28
T 29	23 3 8	13°56'58	1°42'42	0°15'44	11°44'44	5°1'1	6°23'23	3°24'24	11°2'2	8°17'17	22°15'15	5°R13	3°31'31	15°30'30	24°52'52	T 29
W30	23 7 5	14°55'27	15°3'3	2°27'27	11°7'7	5°37'37	6°16'16	3°25'25	11°2'2	8°19'19	22°16'16	5°13'13	3°28'28	15°37'37	24°50'50	W30
T 31	23 11 1	15°53'59	28°49'49	3°45'45	10°31'31	6°12'12	6°Y9	3°26'26	11°3'3	8°21'21	22°17'17	5°11'11	3°25'25	15°44'44	24°48'48	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	15n50	20s20	1n 6	19n21	1n34	0s34	4s57	22n50	0s 6	2n 0	1s33	18n46	1s57	22n 2	0s 3	9n45
W 2	15 33	18 42	0s 6	18 52	1 38	0 50	5 8	22 54	0 5	1 59	1 33	18 47	1 57	22 3	0 3	9 44
T 3	15 15	15 59	1 20	18 20	1 41	1 4	5 20	22 58	0 4	1 58	1 33	18 47	1 57	22 3	0 3	9 43
F 4	14 57	12 20	2 31	17 47	1 43	1 18	5 32	23 2	0 3	1 57	1 33	18 48	1 57	22 3	0 3	9 42
S 5	14 38	7 56	3 34	17 11	1 45	1 30	5 44	23 6	0 3	1 55	1 34	18 48	1 58	22 3	0 3	9 42
S 6	14 20	3 3	4 24	16 34	1 46	1 42	5 56	23 10	0 2	1 54	1 34	18 49	1 58	22 4	0 3	9 41
M 7	14 1	2n 1	4 58	15 56	1 46	1 53	6 8	23 13	0 1	1 52	1 34	18 49	1 58	22 4	0 3	9 40
T 8	13 42	6 59	5 14	15 17	1 46	2 3	6 20	23 17	0n 0	1 51	1 34	18 50	1 58	22 4	0 3	9 39
W 9	13 23	11 33	5 11	14 36	1 45	2 11	6 32	23 20	0 1	1 49	1 35	18 50	1 58	22 4	0 3	9 38
T 10	13 3	15 26	4 48	13 54	1 43	2 19	6 43	23 23	0 2	1 47	1 35	18 51	1 58	22 4	0 3	9 38
F 11	12 44	18 24	4 8	13 12	1 41	2 26	6 54	23 26	0 3	1 45	1 35	18 51	1 58	22 5	0 3	9 37
S 12	12 24	20 15	3 14	12 29	1 38	2 31	7 5	23 28	0 4	1 43	1 35	18 51	1 59	22 5	0 3	9 36
S 13	12 4	20 52	2 9	11 45	1 35	2 35	7 16	23 31	0 5	1 41	1 36	18 52	1 59	22 5	0 3	9 35
M14	11 43	20 14	0 58	11 0	1 31	2 38	7 26	23 33	0 6	1 39	1 36	18 52	1 59	22 5	0 3	9 34
T 15	11 23	18 27	0n15	10 16	1 27	2 40	7 36	23 35	0 7	1 37	1 36	18 52	1 59	22 5	0 3	9 33
W16	11 2	15 43	1 26	9 30	1 23	2 40	7 46	23 37	0 8	1 35	1 36	18 53	1 59	22 6	0 3	9 33
T 17	10 41	12 14	2 32	8 45	1 18	2 39	7 55	23 39	0 9	1 33	1 36	18 53	1 59	22 6	0 3	9 32
F 18	10 21	8 15	3 28	7 59	1 13	2 37	8 3	23 40	0 10	1 31	1 37	18 53	1 59	22 6	0 3	9 31
S 19	9 59	3 59	4 14	7 13	1 8	2 34	8 11	23 41	0 11	1 28	1 37	18 54	2 0	22 6	0 3	9 30
S 20	9 38	0s22	4 47	6 28	1 2	2 29	8 18	23 43	0 12	1 26	1 37	18 54	2 0	22 6	0 3	9 29
M21	9 17	4 39	5 6	5 42	0 56	2 23	8 24	23 44	0 13	1 23	1 37	18 54	2 0	22 6	0 3	9 28
T 22	8 55	8 41	5 12	4 56	0 50	2 15	8 29	23 45	0 14	1 21	1 38	18 54	2 0	22 7	0 3	9 28
W23	8 33	12 22	5 4	4 10	0 43	2 7	8 34	23 45	0 15	1 18	1 38	18 54	2 0	22 7	0 3	9 27
T 24	8 11	15 34	4 44	3 24	0 37	1 57	8 38	23 46	0 16	1 16	1 38	18 54	2 0	22 7	0 3	9 26
F 25	7 49	18 8	4 11	2 39	0 30	1 46	8 41	23 46	0 17	1 13	1 38	18 55	2 1	22 7	0 3	9 25
S 26	7 27	19 56	3 26	1 54	0 23	1 34	8 43	23 47	0 18	1 10	1 38	18 55	2 1	22 7	0 3	9 24
S 27	7 5	20 51	2 32	1 9	0 16	1 21	8 44	23 47	0 19	1 8	1 38	18 55	2 1	22 7	0 3	9 24
M28	6 42	20 44	1 28	0 24	0 9	1 8	8 44	23 47	0 21	1 5	1 39	18 55	2 1	22 7	0 3	9 23
T 29	6 20	19 32	0 19	0s20	0 1	0 53	8 43	23 46	0 22	1 2	1 39	18 55	2 1	22 7	0 3	9 22
W30	5 57	17 13	0s53	1 4	0s 6	0 38	8 42	23 46	0 23	0 59	1 39	18 55	2 1	22 7	0 3	9 21
T 31	5n35	13s52	2s 4	1s48	0s14	0s22	8s39	23n46	0n24	0n56	1s39	18n55	2s 2	22n 7	0s 3	9n20

Julian Day Number = 2247595.5, Delta T = 06m44s

Ecliptic obliquity = 23°30'37", Nutation = - 0°00'13", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°57'00", Lahiri = 16°04'00" Julian Calendar 1 Aug. 1441 == Greg. Calendar 10 Aug. 1441

ASTRODIENST EPHEMERIS for the year 1441
geocentric

SEPTEMBER 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	23 14 58	16 ^m 52'32	12 ^h 58	5 ^h 30	9 ^h R55	6 ^h 548	6 ^h R 2	3 ^h II27	11 ^h II 3	8 ^h m24	22 ^h 518	5 ^h R 7	3 ^h Ω21	15 ^h m50	24 ^h R46	F 1
S 2	23 18 54	17 ^h 51'07	27°26	7° 0	9 ^h m21	7°23	5 ^h Y55	3°27	11° 3	8°26	22°20	5 ^h Ω 1	3°18	15°57	24 ^h Y44	S 2
S 3	23 22 51	18°49'44	12 ^h Y 7	8°29	8°47	7°58	5°47	3°28	11° 4	8°28	22°21	4°55	3°15	16° 4	24°41	S 3
M 4	23 26 47	19°48'24	26°53	9°57	8°16	8°33	5°40	3°28	11° 4	8°30	22°22	4°48	3°12	16°11	24°39	M 4
T 5	23 30 44	20°47'05	11 ^h 836	11°24	7°45	9° 7	5°32	3°29	11° 4	8°32	22°23	4°42	3° 9	16°17	24°37	T 5
W 6	23 34 40	21°45'49	26°10	12°50	7°17	9°42	5°25	3°29	11° 4	8°35	22°23	4°37	3° 6	16°24	24°35	W 6
T 7	23 38 37	22°44'35	10 ^h II30	14°15	6°50	10°17	5°17	3°R29	11° 4	8°37	22°24	4°35	3° 2	16°31	24°32	T 7
F 8	23 42 33	23°43'24	24°33	15°38	6°26	10°51	5° 9	3°29	11°R 4	8°39	22°25	4°D34	2°59	16°37	24°30	F 8
S 9	23 46 30	24°42'15	8 ^h 519	17° 1	6° 3	11°25	5° 2	3°28	11° 4	8°41	22°26	4°35	2°56	16°44	24°27	S 9
S 10	23 50 27	25°41'08	21°49	18°22	5°43	11°59	4°54	3°28	11° 4	8°43	22°27	4°36	2°53	16°51	24°25	S 10
M11	23 54 23	26°40'03	5 ^h Ω 3	19°42	5°25	12°33	4°46	3°28	11° 4	8°45	22°28	4°R37	2°50	16°58	24°22	M11
T 12	23 58 20	27°39'01	18° 4	21° 1	5°10	13° 6	4°38	3°27	11° 4	8°48	22°29	4°36	2°46	17° 4	24°20	T 12
W13	0 2 16	28°38'01	0 ^h m53	22°18	4°57	13°40	4°30	3°27	11° 3	8°50	22°30	4°32	2°43	17°11	24°17	W13
T 14	0 6 13	29°37'03	13°31	23°34	4°46	14°13	4°22	3°26	11° 3	8°52	22°30	4°27	2°40	17°18	24°15	T 14
F 15	0 10 9	0 ^h 36'07	25°58	24°49	4°38	14°46	4°14	3°25	11° 3	8°54	22°31	4°19	2°37	17°24	24°12	F 15
S 16	0 14 6	1°35'13	8 ^h 516	26° 2	4°32	15°19	4° 6	3°24	11° 2	8°56	22°32	4° 9	2°34	17°31	24°10	S 16
S 17	0 18 2	2°34'21	20°25	27°13	4°28	15°52	3°58	3°23	11° 2	8°58	22°33	3°57	2°31	17°38	24° 7	S 17
M18	0 21 59	3°33'31	2 ^h m26	28°23	4°D27	16°25	3°50	3°22	11° 1	9° 0	22°33	3°46	2°27	17°45	24° 4	M18
T 19	0 25 56	4°32'44	14°21	29°30	4°29	16°57	3°42	3°21	11° 1	9° 2	22°34	3°35	2°24	17°51	24° 1	T 19
W20	0 29 52	5°31'58	26°12	0 ^h m36	4°33	17°29	3°33	3°19	11° 0	9° 4	22°35	3°27	2°21	17°58	23°59	W20
T 21	0 33 49	6°31'14	8 ^h Y 2	1°39	4°39	18° 1	3°25	3°18	11° 0	9° 6	22°35	3°20	2°18	18° 5	23°56	T 21
F 22	0 37 45	7°30'32	19°55	2°40	4°47	18°33	3°17	3°16	10°59	9° 8	22°36	3°16	2°15	18°12	23°53	F 22
S 23	0 41 42	8°29'52	1 ^h 56	3°39	4°57	19° 5	3° 9	3°14	10°58	9°10	22°37	3°15	2°12	18°18	23°50	S 23
S 24	0 45 38	9°29'13	14°10	4°34	5°10	19°36	3° 1	3°13	10°57	9°12	22°37	3°D14	2° 8	18°25	23°48	S 24
M25	0 49 35	10°28'37	26°41	5°26	5°24	20° 8	2°53	3°11	10°56	9°14	22°38	3°R15	2° 5	18°32	23°45	M25
T 26	0 53 31	11°28'02	9 ^h 35	6°15	5°41	20°39	2°46	3° 9	10°56	9°16	22°38	3°15	2° 2	18°38	23°42	T 26
W27	0 57 28	12°27'29	22°57	7° 0	6° 0	21°10	2°38	3° 7	10°55	9°18	22°39	3°13	1°59	18°45	23°39	W27
T 28	1 1 25	13°26'57	6 ^h Y47	7°41	6°20	21°40	2°30	3° 4	10°54	9°20	22°39	3° 9	1°56	18°52	23°36	T 28
F 29	1 5 21	14°26'28	21° 5	8°18	6°43	22°11	2°22	3° 2	10°53	9°22	22°39	3° 3	1°52	18°59	23°33	F 29
S 30	1 9 18	15 ^h 26'00	5 ^h Y49	8 ^h m49	7 ^h m 7	22 ^h 541	2 ^h Y15	3 ^h II 0	10 ^h II51	9 ^h m24	22 ^h 540	2 ^h Ω54	1 ^h Ω49	19 ^h m 5	23 ^h Y30	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	5n12	9s38	3s10	2s31	0s21	0s 5	8s35	23n45	0n25	0n53	1s39	18n55	2s 2	22n 7	0s 3	9n19	0n57	24n 9	2n32	19n 3	19n28	11s49	9n56	0n21			
S 2	4 49	4 46	4 5	3 14	0 29	0n12	8 31	23 44	0 26	0 50	1 39	18 55	2 2	22 8	0 3	9 19	0 57	24 9	2 32	19 4	19 29	11 51	9 56	0 21			
S 3	4 26	0n27	4 44	3 56	0 36	0 29	8 26	23 43	0 27	0 47	1 39	18 55	2 2	22 8	0 3	9 18	0 57	24 9	2 32	19 6	19 29	11 53	9 55	0 21			
M 4	4 3	5 39	5 5	4 38	0 44	0 46	8 19	23 42	0 28	0 44	1 39	18 55	2 2	22 8	0 3	9 17	0 57	24 9	2 32	19 7	19 30	11 55	9 54	0 21			
T 5	3 40	10 30	5 6	5 19	0 52	1 4	8 12	23 41	0 29	0 41	1 40	18 55	2 2	22 8	0 3	9 16	0 57	24 9	2 33	19 9	19 31	11 57	9 53	0 20			
W 6	3 17	14 42	4 47	6 0	0 59	1 21	8 5	23 40	0 31	0 38	1 40	18 54	2 3	22 8	0 3	9 15	0 57	24 9	2 33	19 10	19 31	11 59	9 52	0 20			
T 7	2 53	17 58	4 10	6 40	1 7	1 39	7 57	23 38	0 32	0 35	1 40	18 54	2 3	22 8	0 3	9 15	0 57	24 9	2 33	19 10	19 32	12 1	9 51	0 20			
F 8	2 30	20 5	3 19	7 19	1 15	1 56	7 48	23 37	0 33	0 32	1 40	18 54	2 3	22 8	0 3	9 14	0 57	24 9	2 33	19 11	19 33	12 4	9 50	0 20			
S 9	2 7	20 59	2 17	7 58	1 22	2 13	7 38	23 35	0 34	0 29	1 40	18 54	2 3	22 8	0 2	9 13	0 57	24 9	2 33	19 10	19 34	12 6	9 49	0 20			
S 10	1 43	20 37	1 8	8 36	1 30	2 29	7 28	23 33	0 35	0 25	1 40	18 54	2 3	22 8	0 2	9 12	0 57	24 9	2 33	19 10	19 34	12 8	9 48	0 20			
M11	1 20	19 6	0n 2	9 14	1 37	2 45	7 18	23 31	0 36	0 22	1 40	18 54	2 3	22 8	0 2	9 11	0 57	24 9	2 33	19 10	19 35	12 10	9 47	0 20			
T 12	0 56	16 36	1 12	9 51	1 45	3 1	7 7	23 29	0 38	0 19	1 40	18 53	2 3	22 8	0 2	9 11	0 57	24 9	2 33	19 10	19 36	12 12	9 46	0 20			
W13	0 33	13 19	2 16	10 26	1 52	3 16	6 56	23 27	0 39	0 16	1 40	18 53	2 4	22 8	0 2	9 10	0 57	24 9	2 34	19 11	19 37	12 14	9 45	0 20			
T 14	0 9	9 28	3 13	11 1	1 59	3 31	6 45	23 25	0 40	0 13	1 40	18 53	2 4	22 8	0 2	9 9	0 57	24 9	2 34	19 12	19 37	12 16	9 44	0 20			
F 15	0s14	5 16	3 59	11 36	2 6	3 45	6 33	23 22	0 41	0 9	1 40	18 52	2 4	22 8	0 2	9 8	0 57	24 9	2 34	19 14	19 38	12 18	9 43	0 20			
S 16	0 38	0 54	4 34	12 9	2 13	3 58	6 21	23 20	0 43	0 6	1 40	18 52	2 4	22 7	0 2	9 8	0 57	24 9	2 34	19 17	19 39	12 20	9 42	0 20			
S 17	1 2	3s26	4 55	12 41	2 20	4 10	6 9	23 17	0 44	0 3	1 40	18 52	2 4	22 7	0 2	9 7	0 57	24 9	2 34	19 19	19 39	12 22	9 41	0 20			
M18	1 25	7 36	5 3	13 12	2 26	4 22	5 57	23 15	0 45	0s 0	1 40	18 51	2 4	22 7	0 2	9 6	0 57	24 9	2 34	19 22	19 40	12 24	9 40	0 19			
T 19	1 49	11 27	4 58	13 42	2 32	4 33	5 45	23 12	0 46	0 4	1 40	18 51	2 4	22 7	0 2	9 5	0 57	24 9	2 34	19 25	19 41	12 26	9 39	0 19			
W20	2 12	14 49	4 40	14 11	2 38	4 43	5 32	23 9	0 48	0 7	1 40	18 51	2 5	22 7	0 2	9 5	0 57	24 9	2 34	19 27	19 42	12 28	9 38	0 19			
T 21	2 36	17 36	4 10	14 39	2 44	4 52	5 20	23 6	0 49	0 10	1 40	18 50	2 5	22 7	0 2	9 4	0 57	24 9	2 35	19 28	19 42	12 30	9 37	0 19			
F 22	2 59	19 39	3 29	15 5	2 49	5 1	5 8	23 3	0 50	0 13	1 40	18 50	2 5	22 7	0 2	9 3	0 57	24 9	2 35	19 29	19 43	12 32	9 36	0 19			
S 23	3 23	20 51	2 39	15 30	2 54	5 8	4 55	23 0	0 52	0 16	1 40	18 49	2 5	22 7	0 2	9 2	0 57	24 9	2 35	19 29	19 44	12 35	9 34	0 19			
S 24	3 46	21 6	1 40	15 53	2 59	5 15	4 43	22 57	0 53	0 19	1 40	18 49	2 5	22 7	0 2	9 2	0 57	24 9	2 35	19 29	19 45	12 37	9 33	0 19			
M25	4 10	20 19	0 35	16 15	3 3	5 21	4 31	22 53	0 54	0 23	1 40	18 48	2 5	22 7	0 2	9 1	0 57	24 9	2 35	19 29	19 45	12 39	9 32	0 19			
T 26	4 33	18 27	0s34	16 35	3 7	5 27	4 19	22 50	0 56	0 26	1 40	18 48	2 5	22 7	0 2	9 0	0 57	24 9	2 35	19 29	19 46	12 41	9 31	0 19			
W27	4 56	15 31	1 43	16 53	3 10	5 31	4 7	22 47	0 57	0 29	1 40	18 47	2 5	22 6	0 2	8 59	0 57	24 9	2 35	19 30	19 47	12 43	9 30	0 19			
T 28	5 19	11 39	2 48	17 8	3 12	5 34	3 55	22 43	0 58	0 32	1 40	18 47	2 6	22 6	0 2	8 59	0 57	24 9	2 36	19 31	19 47	12 45	9 29	0 19			
F 29	5 43	6 59	3 45	17 22	3 14	5 37	3 43	22 40	1 0	0 35	1 40	18 46	2 6	22 6	0 2	8 58	0 57	24 9	2 36	19 32	19 48	12 47	9 28	0 19			
S 30	6s 6	1s48	4s29	17s33	3s15	5n39	3s32	22n36	1n 1	0s38	1s40	18n46	2s 6	22n 6	0s 2	8n57	0n57	24n10	2n36	19n34	19n49	12s49	9n26	0n19			

ASTRODIENST EPHEMERIS for the year 1441

geocentric

OCTOBER 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 13 14	16♂25'35	20♀50	9♂15	7♂33	23♂11	2°R 7	2°R57	10°R50	9♂26	22♂40	2°R43	1♂46	19♂12	23°R27	S 1
M 2	1 17 11	17°25'11	6♂ 0	9°35	8° 0	23°41	1°Y59	2°II54	10°II49	9°28	22°41	2♂33	1°43	19°19	23°Y25	M 2
T 3	1 21 7	18°24'50	21° 7	9°48	8°30	24°10	1°52	2°52	10°48	9°29	22°41	2°23	1°40	19°25	23°22	T 3
W 4	1 25 4	19°24'31	6♂ 3	9°R54	9° 1	24°40	1°45	2°49	10°47	9°31	22°41	2°15	1°37	19°32	23°19	W 4
T 5	1 29 0	20°24'14	20°38	9°53	9°33	25° 9	1°37	2°46	10°45	9°33	22°42	2° 9	1°33	19°39	23°16	T 5
F 6	1 32 57	21°24'00	4♂51	9°43	10° 7	25°38	1°30	2°43	10°44	9°35	22°42	2° 7	1°30	19°46	23°13	F 6
S 7	1 36 54	22°23'47	18°39	9°25	10°42	26° 6	1°23	2°40	10°43	9°37	22°42	2°D 6	1°27	19°52	23°10	S 7
S 8	1 40 50	23°23'38	2♂ 3	8°58	11°18	26°35	1°16	2°37	10°41	9°38	22°42	2°R 6	1°24	19°59	23° 7	S 8
M 9	1 44 47	24°23'30	15° 8	8°21	11°56	27° 3	1° 9	2°34	10°40	9°40	22°42	2° 5	1°21	20° 6	23° 4	M 9
T 10	1 48 43	25°23'25	27°55	7°36	12°35	27°31	1° 3	2°30	10°38	9°42	22°43	2° 3	1°17	20°12	23° 1	T 10
W11	1 52 40	26°23'21	10♂28	6°42	13°16	27°58	0°56	2°27	10°36	9°43	22°43	1°59	1°14	20°19	22°58	W11
T 12	1 56 36	27°23'20	22°51	5°40	13°57	28°25	0°50	2°23	10°35	9°45	22°43	1°51	1°11	20°26	22°55	T 12
F 13	2 0 33	28°23'21	5♂ 4	4°32	14°40	28°52	0°43	2°20	10°33	9°47	22°43	1°40	1° 8	20°33	22°52	F 13
S 14	2 4 29	29°23'24	17°10	3°18	15°24	29°19	0°37	2°16	10°31	9°48	22°43	1°27	1° 5	20°39	22°49	S 14
S 15	2 8 26	0♂23'29	29°11	2° 1	16° 8	29°46	0°31	2°12	10°30	9°50	22°R43	1°12	1° 2	20°46	22°46	S 15
M16	2 12 22	1°23'36	11♂ 7	0°43	16°54	0♂12	0°25	2° 8	10°28	9°51	22°43	0°57	0°58	20°53	22°43	M16
T 17	2 16 19	2°23'44	22°59	29♂27	17°41	0°38	0°20	2° 5	10°26	9°53	22°43	0°43	0°55	20°59	22°41	T 17
W18	2 20 16	3°23'55	4♂49	28°14	18°28	1° 3	0°14	2° 1	10°24	9°54	22°43	0°31	0°52	21° 6	22°38	W18
T 19	2 24 12	4°24'07	16°39	27° 8	19°17	1°28	0° 9	1°57	10°22	9°56	22°43	0°22	0°49	21°13	22°35	T 19
F 20	2 28 9	5°24'21	28°32	26°10	20° 6	1°53	0° 3	1°52	10°20	9°57	22°43	0°16	0°46	21°20	22°32	F 20
S 21	2 32 5	6°24'36	10♂32	25°21	20°56	2°18	29♂58	1°48	10°18	9°59	22°42	0°12	0°43	21°26	22°29	S 21
S 22	2 36 2	7°24'53	22°43	24°44	21°47	2°42	29°54	1°44	10°16	10° 0	22°42	0°11	0°39	21°33	22°26	S 22
M23	2 39 58	8°25'12	5♂10	24°18	22°39	3° 6	29°49	1°40	10°14	10° 2	22°42	0°11	0°36	21°40	22°23	M23
T 24	2 43 55	9°25'32	17°58	24° 3	23°31	3°29	29°44	1°35	10°12	10° 3	22°42	0°11	0°33	21°46	22°21	T 24
W25	2 47 51	10°25'53	1♂11	24°D 0	24°24	3°53	29°40	1°31	10°10	10° 4	22°42	0° 9	0°30	21°53	22°18	W25
T 26	2 51 48	11°26'16	14°54	24° 9	25°18	4°15	29°36	1°27	10° 8	10° 5	22°41	0° 6	0°27	22° 0	22°15	T 26
F 27	2 55 45	12°26'40	29° 8	24°27	26°12	4°38	29°32	1°22	10° 6	10° 7	22°41	29♂59	0°23	22° 7	22°12	F 27
S 28	2 59 41	13°27'05	13°Y50	24°56	27° 7	5° 0	29°28	1°18	10° 4	10° 8	22°41	29°51	0°20	22°13	22°10	S 28
S 29	3 3 38	14°27'32	28°55	25°32	28° 3	5°22	29°24	1°13	10° 2	10° 9	22°40	29°40	0°17	22°20	22° 7	S 29
M30	3 7 34	15°28'01	14♂14	26°17	28°59	5°43	29°21	1° 8	9°59	10°10	22°40	29°29	0°14	22°27	22° 4	M30
T 31	3 11 31	16♂28'31	29♂35	27♂ 9	29♂56	6♂ 4	29♂18	1°II 4	9°II57	10♂11	22♂40	29♂19	0♂11	22♂33	22°Y 2	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	6s29	3n36	4s55	17s42	3s15	5n40	3s20	22n32	1n 3	0s41	1s39	18n45	2s 6	22n 6	0s 2	8n57
M 2	6 52	8 50	5 1	17 47	3 14	5 40	3 9	22 29	1 4	0 44	1 39	18 44	2 6	22 6	0 2	8 56
T 3	7 14	13 30	4 45	17 50	3 12	5 40	2 58	22 25	1 5	0 46	1 39	18 44	2 6	22 6	0 2	8 55
W 4	7 37	17 16	4 11	17 48	3 9	5 38	2 47	22 21	1 7	0 49	1 39	18 43	2 6	22 5	0 2	8 55
T 5	8 0	19 51	3 20	17 44	3 4	5 36	2 36	22 17	1 8	0 52	1 39	18 43	2 6	22 5	0 2	8 54
F 6	8 22	21 7	2 19	17 35	2 58	5 33	2 25	22 13	1 10	0 55	1 39	18 42	2 6	22 5	0 2	8 53
S 7	8 45	21 3	1 11	17 22	2 51	5 30	2 15	22 10	1 11	0 57	1 39	18 41	2 7	22 5	0 2	8 53
S 8	9 7	19 45	0 0	17 5	2 42	5 25	2 5	22 6	1 13	1 0	1 39	18 40	2 7	22 5	0 2	8 52
M 9	9 29	17 26	1n 8	16 43	2 31	5 20	1 55	22 2	1 14	1 3	1 38	18 40	2 7	22 4	0 2	8 51
T 10	9 51	14 18	2 12	16 16	2 18	5 14	1 45	21 58	1 16	1 5	1 38	18 39	2 7	22 4	0 2	8 51
W11	10 13	10 33	3 8	15 45	2 4	5 8	1 35	21 54	1 17	1 8	1 38	18 38	2 7	22 4	0 2	8 50
T 12	10 34	6 25	3 54	15 9	1 48	5 1	1 26	21 50	1 19	1 10	1 38	18 37	2 7	22 4	0 2	8 50
F 13	10 56	2 5	4 28	14 29	1 30	4 53	1 16	21 46	1 21	1 12	1 38	18 37	2 7	22 4	0 2	8 49
S 14	11 17	2s18	4 50	13 46	1 11	4 44	1 7	21 42	1 22	1 15	1 38	18 36	2 7	22 3	0 2	8 49
S 15	11 39	6 33	4 59	13 1	0 51	4 35	0 59	21 38	1 24	1 17	1 37	18 35	2 7	22 3	0 2	8 48
M16	12 0	10 32	4 55	12 14	0 31	4 25	0 50	21 34	1 25	1 19	1 37	18 34	2 7	22 3	0 2	8 47
T 17	12 10	14 6	4 37	11 28	0 10	4 15	0 41	21 30	1 27	1 21	1 37	18 34	2 7	22 3	0 2	8 47
W18	12 41	17 6	4 8	10 43	0n11	4 4	0 33	21 26	1 29	1 23	1 37	18 33	2 7	22 2	0 2	8 46
T 19	13 2	19 23	3 28	10 1	0 30	3 52	0 25	21 22	1 30	1 25	1 37	18 32	2 7	22 2	0 2	8 46
F 20	13 22	20 51	2 39	9 22	0 49	3 40	0 17	21 18	1 32	1 27	1 36	18 31	2 7	22 2	0 2	8 45
S 21	13 42	21 24	1 42	8 49	1 6	3 28	0 9	21 14	1 34	1 29	1 36	18 30	2 8	22 1	0 2	8 45
S 22	14 2	20 57	0 39	8 21	1 21	3 14	0 2	21 10	1 36	1 30	1 36	18 29	2 8	22 1	0 2	8 44
M23	14 21	19 28	0s26	7 58	1 35	3 1	0n 5	21 6	1 37	1 32	1 36	18 28	2 8	22 1	0 2	8 44
T 24	14 41	16 58	1 33	7 42	1 47	2 46	0 12	21 2	1 39	1 34	1 35	18 27	2 8	22 1	0 2	8 43
W25	15 0	13 31	2 36	7 32	1 57	2 32	0 19	20 58	1 41	1 35	1 35	18 27	2 8	22 0	0 2	8 43
T 26	15 18	9 14	3 33	7 27	2 5	2 16	0 26	20 55	1 43	1 37	1 35	18 26	2 8	22 0	0 2	8 42
F 27	15 37	4 18	4 19	7 28	2 11	2 1	0 33	20 51	1 44	1 38	1 35	18 25	2 8	22 0	0 2	8 42
S 28	15 55	1n 1	4 50	7 34	2 16	1 45	0 39	20 48	1 46	1 39	1 34	18 24	2 8	21 59	0 2	8 42
S 29	16 13	6 26	5 1	7 45	2 19	1 28	0 45	20 44	1 48	1 41	1 34	18 23	2 8	21 59	0 2	8 41
M30	16 31	11 31	4 51	7 59	2 21	1 11	0 51	20 41	1 50	1 42	1 34	18 22	2 8	21 59	0 2	8 41
T 31	16s49	15n53	4s21	8s17	2n22	0n54	0n57	20n37	1n52	1s43	1s34	18n21	2s 8	21n58	0s 2	8n40

Julian Day Number = 2247656.5, Delta T = 06m44s

Ecliptic obliquity = 23°30'38", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°57'08", Lahiri = 16°04'08" Julian Calendar 1 Oct. 1441 == Greg. Calendar 10 Oct. 1441

ASTRODIENST EPHEMERIS for the year 1441

geocentric

NOVEMBER 1441 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	3 15 27	17 ¹¹ 29'03	14 ¹¹ 47	28 ²¹ 6	0 ⁰¹ 54	6 ⁰² 24	29 ⁰¹ 15	0 ⁰¹ 59	9 ⁰¹ 55	10 ⁰¹ 13	22 ⁰¹ 39	29 ⁰¹ 11	0 ⁰¹ 08	22 ⁰¹ 40	21 ⁰¹ 59	W 1
T 2	3 19 24	18 ⁰² 29'37	29 ⁰² 40	29 ⁰² 9	1 ⁰¹ 52	6 ⁰⁴ 44	29 ⁰² 12	0 ⁰² 54	9 ⁰² 53	10 ⁰² 14	22 ⁰² 39	29 ⁰² 5	0 ⁰² 4	22 ⁰² 47	21 ⁰² 57	T 2
F 3	3 23 20	19 ⁰³ 30'12	14 ⁰³ 7	0 ⁰³ 17	2 ⁰¹ 50	7 ⁰⁴ 4	29 ⁰³ 9	0 ⁰³ 49	9 ⁰³ 50	10 ⁰³ 15	22 ⁰³ 38	29 ⁰³ 2	0 ⁰³ 1	22 ⁰³ 54	21 ⁰³ 54	F 3
S 4	3 27 17	20 ⁰³ 30'49	28 ⁰³ 7	1 ⁰³ 29	3 ⁰³ 49	7 ⁰⁵ 23	29 ⁰³ 7	0 ⁰⁴ 5	9 ⁰⁴ 48	10 ⁰⁴ 16	22 ⁰⁴ 38	29 ⁰⁴ 1	29 ⁰⁴ 58	23 ⁰⁴ 0	21 ⁰⁴ 51	S 4
S 5	3 31 14	21 ⁰³ 31'28	11 ⁰³ 38	2 ⁰⁴ 4	4 ⁰⁴ 9	7 ⁰⁶ 42	29 ⁰⁴ 5	0 ⁰⁵ 40	9 ⁰⁵ 45	10 ⁰⁵ 17	22 ⁰⁵ 37	29 ⁰⁵ 1	29 ⁰⁵ 55	23 ⁰⁵ 7	21 ⁰⁵ 49	S 5
M 6	3 35 10	22 ⁰³ 32'08	24 ⁰⁴ 44	4 ⁰⁵ 2	5 ⁰⁵ 49	8 ⁰⁷ 0	29 ⁰⁵ 3	0 ⁰⁶ 35	9 ⁰⁶ 43	10 ⁰⁶ 18	22 ⁰⁶ 37	29 ⁰⁶ 2	29 ⁰⁶ 52	23 ⁰⁶ 14	21 ⁰⁶ 47	M 6
T 7	3 39 7	23 ⁰³ 32'50	7 ⁰⁴ 28	5 ⁰⁶ 22	6 ⁰⁶ 49	8 ⁰⁸ 18	29 ⁰⁶ 1	0 ⁰⁷ 30	9 ⁰⁷ 41	10 ⁰⁷ 19	22 ⁰⁷ 36	29 ⁰⁷ 1	29 ⁰⁷ 49	23 ⁰⁷ 20	21 ⁰⁷ 44	T 7
W 8	3 43 3	24 ⁰³ 33'34	19 ⁰⁵ 55	6 ⁰⁷ 44	7 ⁰⁷ 50	8 ⁰⁹ 36	28 ⁰⁵ 9	0 ⁰⁸ 25	9 ⁰⁸ 38	10 ⁰⁸ 19	22 ⁰⁸ 36	28 ⁰⁵ 7	29 ⁰⁸ 45	23 ⁰⁸ 27	21 ⁰⁸ 42	W 8
T 9	3 47 0	25 ⁰³ 34'20	2 ⁰⁶ 10	8 ⁰⁸ 9	8 ⁰⁸ 52	8 ¹⁰ 52	28 ⁰⁵ 8	0 ⁰⁹ 20	9 ⁰⁹ 36	10 ⁰⁹ 20	22 ⁰⁹ 35	28 ⁰⁵ 2	29 ⁰⁹ 42	23 ⁰⁹ 34	21 ⁰⁹ 39	T 9
F 10	3 50 56	26 ⁰³ 35'06	14 ⁰⁶ 14	9 ⁰⁹ 34	9 ⁰⁹ 53	9 ¹¹ 9	28 ⁰⁵ 7	0 ¹⁰ 15	9 ¹⁰ 33	10 ¹⁰ 21	22 ¹⁰ 34	28 ⁰⁶ 43	29 ¹⁰ 39	23 ¹⁰ 41	21 ¹⁰ 37	F 10
S 11	3 54 53	27 ⁰³ 35'55	26 ⁰⁶ 12	11 ¹⁰ 1	10 ¹⁰ 55	9 ¹² 25	28 ⁰⁶ 56	0 ¹¹ 10	9 ¹¹ 31	10 ¹¹ 22	22 ¹¹ 34	28 ⁰⁶ 33	29 ¹¹ 36	23 ¹¹ 47	21 ¹¹ 35	S 11
S 12	3 58 49	28 ⁰³ 36'45	8 ⁰⁶ 6	12 ¹⁰ 29	11 ¹⁰ 58	9 ¹⁴ 40	28 ⁰⁶ 55	0 ¹² 5	9 ¹² 28	10 ¹² 23	22 ¹² 33	28 ⁰⁷ 21	29 ¹² 33	23 ¹² 54	21 ¹² 33	S 12
M13	4 2 46	29 ⁰³ 37'36	19 ⁰⁶ 58	13 ¹¹ 58	13 ¹¹ 1	9 ¹⁶ 55	28 ⁰⁷ 54	0 ¹³ 0	9 ¹³ 26	10 ¹³ 23	22 ¹³ 32	28 ⁰⁷ 8	29 ¹³ 29	24 ¹³ 1	21 ¹³ 31	M13
T 14	4 6 43	0 ⁰⁴ 38'28	1 ⁰⁷ 49	15 ¹¹ 28	14 ¹¹ 4	10 ¹⁸ 9	28 ⁰⁷ 54	29 ¹³ 56	9 ¹⁴ 23	10 ¹⁴ 24	22 ¹⁴ 32	27 ⁰⁷ 57	29 ¹⁴ 26	24 ¹⁴ 7	21 ¹⁴ 28	T 14
W15	4 10 39	1 ⁰⁴ 39'22	13 ⁰⁷ 41	16 ¹¹ 58	15 ¹¹ 8	10 ²⁰ 23	28 ⁰⁸ 54	29 ¹⁵ 1	9 ¹⁵ 21	10 ¹⁵ 25	22 ¹⁵ 31	27 ⁰⁸ 47	29 ¹⁵ 23	24 ¹⁵ 14	21 ¹⁵ 26	W15
T 16	4 14 36	2 ⁰⁴ 40'16	25 ⁰⁸ 36	18 ¹² 29	16 ¹² 12	10 ²² 36	28 ⁰⁸ 54	29 ¹⁶ 46	9 ¹⁶ 18	10 ¹⁶ 25	22 ¹⁶ 30	27 ⁰⁹ 40	29 ¹⁶ 20	24 ¹⁶ 21	21 ¹⁶ 24	T 16
F 17	4 18 32	3 ⁰⁴ 41'12	7 ⁰⁸ 34	20 ¹² 0	17 ¹² 16	10 ²⁴ 9	28 ⁰⁸ 54	29 ¹⁷ 41	9 ¹⁷ 16	10 ¹⁷ 26	22 ¹⁷ 29	27 ⁰⁹ 35	29 ¹⁷ 17	24 ¹⁷ 28	21 ¹⁷ 22	F 17
S 18	4 22 29	4 ⁰⁴ 42'09	19 ⁰⁹ 39	21 ¹² 31	18 ¹² 20	11 ¹² 1	28 ⁰⁸ 54	29 ¹⁸ 36	9 ¹⁸ 13	10 ¹⁸ 27	22 ¹⁸ 29	27 ¹⁰ 32	29 ¹⁸ 14	24 ¹⁸ 34	21 ¹⁸ 20	S 18
S 19	4 26 25	5 ⁰⁴ 43'06	1 ⁰⁹ 55	23 ¹² 3	19 ¹² 25	11 ¹² 12	28 ⁰⁸ 55	29 ¹⁹ 31	9 ¹⁹ 11	10 ¹⁹ 27	22 ¹⁹ 28	27 ¹⁰ D32	29 ¹⁹ 10	24 ¹⁹ 41	21 ¹⁹ 18	S 19
M20	4 30 22	6 ⁰⁴ 44'04	14 ¹⁰ 23	24 ¹² 35	20 ¹³ 30	11 ¹³ 23	28 ⁰⁸ 56	29 ²⁰ 26	9 ²⁰ 8	10 ²⁰ 28	22 ²⁰ 27	27 ¹¹ 33	29 ²⁰ 7	24 ²⁰ 48	21 ²⁰ 17	M20
T 21	4 34 18	7 ⁰⁴ 45'03	27 ¹⁰ 9	26 ¹² 8	21 ¹³ 36	11 ¹³ 33	28 ⁰⁸ 57	29 ²¹ 21	9 ²¹ 6	10 ²¹ 28	22 ²¹ 26	27 ¹¹ 34	29 ²¹ 4	24 ²¹ 54	21 ²¹ 15	T 21
W22	4 38 15	8 ⁰⁴ 46'03	10 ¹⁰ 17	27 ¹² 40	22 ¹⁴ 1	11 ¹⁴ 43	28 ⁰⁸ 58	29 ²¹ 16	9 ²¹ 3	10 ²¹ 28	22 ²¹ 25	27 ¹¹ R35	29 ²¹ 1	25 ²¹ 1	21 ²¹ 13	W22
T 23	4 42 12	9 ⁰⁴ 47'03	23 ¹⁰ 50	29 ¹² 12	23 ¹⁴ 47	11 ¹⁵ 1	29 ⁰⁹ 0	29 ²² 11	9 ²² 1	10 ²² 29	22 ²² 24	27 ¹² 34	28 ⁰⁸ 58	25 ²² 8	21 ²² 11	T 23
F 24	4 46 8	10 ⁰⁴ 48'03	7 ¹⁰ 50	0 ¹² 45	24 ¹⁵ 3	12 ¹⁵ 0	29 ⁰⁹ 2	29 ²² 7	8 ²² 58	10 ²² 29	22 ²² 23	27 ¹² 31	28 ⁰⁸ 55	25 ²² 14	21 ²² 10	F 24
S 25	4 50 5	11 ⁰⁴ 49'05	22 ¹⁰ 17	2 ¹² 18	26 ¹⁵ 0	12 ¹⁵ 7	29 ⁰⁹ 4	29 ²³ 2	8 ²³ 55	10 ²³ 30	22 ²³ 22	27 ¹² 26	28 ⁰⁸ 51	25 ²³ 21	21 ²³ 8	S 25
S 26	4 54 1	12 ⁰⁵ 50'06	7 ¹² 8	3 ¹⁵ 51	27 ¹⁵ 7	12 ¹⁶ 14	29 ⁰⁹ 6	28 ⁰⁸ 57	8 ²³ 53	10 ²³ 30	22 ²³ 21	27 ¹² 19	28 ⁰⁸ 48	25 ²³ 28	21 ²³ 6	S 26
M27	4 57 58	13 ⁰⁵ 51'09	22 ¹² 16	5 ¹⁶ 24	28 ¹⁶ 13	12 ¹⁶ 20	29 ⁰⁹ 8	28 ⁰⁸ 52	8 ²⁴ 50	10 ²⁴ 30	22 ²⁴ 20	27 ¹² 12	28 ⁰⁸ 45	25 ²⁴ 35	21 ²⁴ 5	M27
T 28	5 1 54	14 ⁰⁵ 52'12	7 ¹² 32	6 ¹⁶ 57	29 ¹⁶ 21	12 ¹⁶ 26	29 ¹⁰ 11	28 ⁰⁸ 48	8 ²⁴ 48	10 ²⁴ 30	22 ²⁴ 19	27 ¹² 6	28 ⁰⁸ 42	25 ²⁴ 41	21 ²⁴ 3	T 28
W29	5 5 51	15 ⁰⁵ 53'15	22 ¹² 44	8 ¹⁷ 30	0 ¹⁷ 28	12 ¹⁷ 31	29 ¹⁰ 13	28 ⁰⁸ 43	8 ²⁵ 45	10 ²⁵ 30	22 ²⁵ 18	27 ¹² 1	28 ⁰⁸ 39	25 ²⁵ 48	21 ²⁵ 2	W29
T 30	5 9 47	16 ⁰⁵ 54'20	7 ¹² 43	10 ¹⁷ 4	1 ¹⁷ 36	12 ¹⁷ 35	29 ¹⁰ 16	28 ⁰⁸ 39	8 ²⁵ 43	10 ²⁵ 31	22 ²⁵ 17	26 ¹² 57	28 ⁰⁸ 35	25 ²⁵ 55	21 ²⁵ 1	T 30

Day	☉			☽			♀			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂					
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F 1	5 13 44	17°55'25	22°21	11°37	2°43	12°38	29°19	28°R34	8°R40	10°31	22°R16	26°D56	28°32	26°11	20°R59	F 1
S 2	5 17 41	18°56'31	6°32	13°11	3°51	12°41	29°23	28°30	8°38	10°31	22°15	26°56	28°29	26°8	20°Y58	S 2
S 3	5 21 37	19°57'37	20°14	14°45	5°0	12°43	29°26	28°25	8°35	10°31	22°14	26°57	28°26	26°15	20°57	S 3
M 4	5 25 34	20°58'45	3°29	16°19	6°8	12°44	29°30	28°21	8°33	10°R31	22°13	26°59	28°23	26°22	20°56	M 4
T 5	5 29 30	21°59'53	16°20	17°53	7°17	12°R44	29°34	28°16	8°30	10°31	22°12	27°R 0	28°20	26°28	20°55	T 5
W 6	5 33 27	23°1'02	28°50	19°27	8°25	12°44	29°38	28°12	8°28	10°31	22°11	27°0	28°16	26°35	20°54	W 6
T 7	5 37 23	24°2'11	11°3	21°2	9°34	12°43	29°42	28°8	8°25	10°31	22°10	26°58	28°13	26°42	20°53	T 7
F 8	5 41 20	25°3'21	23°5	22°37	10°43	12°41	29°47	28°4	8°23	10°31	22°9	26°55	28°10	26°48	20°52	F 8
S 9	5 45 17	26°4'32	5°0	24°12	11°53	12°38	29°51	28°0	8°21	10°30	22°7	26°51	28°7	26°55	20°51	S 9
S 10	5 49 13	27°5'43	16°51	25°47	13°2	12°34	29°56	27°56	8°18	10°30	22°6	26°46	28°4	27°2	20°50	S 10
M 11	5 53 10	28°6'54	28°42	27°23	14°12	12°30	0°Y 1	27°52	8°16	10°30	22°5	26°40	28°1	27°8	20°50	M 11
T 12	5 57 6	29°8'06	10°34	28°58	15°21	12°24	0°6	27°48	8°14	10°30	22°4	26°35	27°57	27°15	20°49	T 12
W 13	6 1 3	0°3'18	22°30	0°35	16°31	12°18	0°12	27°44	8°11	10°29	22°3	26°31	27°54	27°22	20°48	W 13
T 14	6 4 59	1°10'31	4°33	2°11	17°41	12°11	0°17	27°41	8°9	10°29	22°1	26°27	27°51	27°29	20°48	T 14
F 15	6 8 56	2°11'43	16°42	3°48	18°51	12°3	0°23	27°37	8°7	10°29	22°0	26°26	27°48	27°35	20°47	F 15
S 16	6 12 52	3°12'55	29°0	5°25	20°1	11°55	0°29	27°33	8°4	10°28	21°59	26°D25	27°45	27°42	20°47	S 16
S 17	6 16 49	4°14'08	11°29	7°2	21°12	11°45	0°35	27°30	8°2	10°28	21°58	26°26	27°41	27°49	20°46	S 17
M 18	6 20 46	5°15'20	24°10	8°40	22°22	11°35	0°41	27°27	8°0	10°27	21°56	26°27	27°38	27°55	20°46	M 18
T 19	6 24 42	6°16'31	7°5	10°18	23°33	11°24	0°48	27°23	7°58	10°27	21°55	26°29	27°35	28°2	20°46	T 19
W 20	6 28 39	7°17'43	20°17	11°57	24°43	11°12	0°54	27°20	7°56	10°26	21°54	26°30	27°32	28°9	20°46	W 20
T 21	6 32 35	8°18'53	3°Y47	13°36	25°54	10°59	1°1	27°17	7°54	10°26	21°53	26°R31	27°29	28°16	20°46	T 21
F 22	6 36 32	9°20'04	17°38	15°15	27°5	10°46	1°8	27°14	7°51	10°25	21°51	26°31	27°26	28°22	20°45	F 22
S 23	6 40 28	10°21'14	1°49	16°54	28°16	10°32	1°15	27°11	7°49	10°25	21°50	26°30	27°22	28°29	20°D45	S 23
S 24	6 44 25	11°22'23	16°17	18°34	29°27	10°17	1°23	27°8	7°47	10°24	21°49	26°28	27°19	28°36	20°46	S 24
M 25	6 48 21	12°23'32	1°11	20°14	0°38	10°1	1°30	27°5	7°45	10°23	21°47	26°27	27°16	28°42	20°46	M 25
T 26	6 52 18	13°24'40	15°53	21°55	1°50	9°45	1°38	27°3	7°43	10°23	21°46	26°25	27°13	28°49	20°46	T 26
W 27	6 56 15	14°25'48	0°47	23°35	3°1	9°28	1°45	27°0	7°42	10°22	21°45	26°24	27°10	28°56	20°46	W 27
T 28	7 0 11	15°26'55	15°33	25°16	4°12	9°10	1°53	26°58	7°40	10°21	21°43	26°23	27°7	29°2	20°46	T 28
F 29	7 4 8	16°28'02	0°15	26°57	5°24	8°52	2°1	26°56	7°38	10°20	21°42	26°D23	27°3	29°9	20°47	F 29
S 30	7 8 4	17°29'08	14°17	28°37	6°36	8°33	2°9	26°53	7°36	10°19	21°41	26°23	27°0	29°16	20°47	S 30
S 31	7 12 1	18°30'14	28°15	0°18	7°47	8°13	2°Y18	26°51	7°34	10°19	21°39	26°24	26°57	29°M23	20°Y48	S 31

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F 1	22s58	21n15	0s25	22s53	0s39	10s 3	2n33	19n58	3n 1	1s34	1s25	17n52	2s 5	21n47	0s 2	8n34	1n 0	24n21	2n44	20n50	20n31	14s53	8n25	0n13									
S 2	23 3	19 32	0n52	23 12	0 45	10 26	2 34	19 59	3 4	1 32	1 24	17 51	2 5	21 47	0 2	8 34	1 0	24 22	2 44	20 50	20 32	14 55	8 24	0 13									
S 3	23 8	16 44	2 4	23 29	0 51	10 48	2 35	20 1	3 6	1 30	1 24	17 50	2 5	21 46	0 2	8 34	1 0	24 22	2 44	20 50	20 32	14 56	8 24	0 13									
M 4	23 12	13 9	3 6	23 45	0 57	11 10	2 35	20 3	3 9	1 29	1 24	17 50	2 5	21 46	0 2	8 34	1 0	24 22	2 44	20 49	20 33	14 58	8 23	0 13									
T 5	23 16	9 3	3 57	24 0	1 3	11 32	2 35	20 6	3 12	1 27	1 23	17 49	2 4	21 46	0 2	8 34	1 0	24 23	2 44	20 49	20 33	15 0	8 23	0 12									
W 6	23 20	4 41	4 35	24 14	1 8	11 54	2 36	20 8	3 14	1 25	1 23	17 48	2 4	21 45	0 2	8 34	1 0	24 23	2 44	20 49	20 34	15 2	8 22	0 12									
T 7	23 23	0 13	5 0	24 26	1 14	12 16	2 36	20 11	3 17	1 23	1 23	17 47	2 4	21 45	0 2	8 34	1 0	24 23	2 44	20 50	20 35	15 4	8 22	0 12									
F 8	23 25	4s11	5 11	24 37	1 19	12 37	2 36	20 14	3 19	1 21	1 22	17 47	2 4	21 44	0 2	8 35	1 0	24 23	2 45	20 50	20 35	15 6	8 21	0 12									
S 9	23 27	8 22	5 9	24 47	1 24	12 59	2 35	20 18	3 22	1 19	1 22	17 46	2 4	21 44	0 2	8 35	1 0	24 24	2 45	20 51	20 36	15 8	8 21	0 12									
S 10	23 29	12 14	4 53	24 55	1 29	13 20	2 35	20 21	3 24	1 17	1 22	17 45	2 3	21 44	0 2	8 35	1 0	24 24	2 45	20 52	20 37	15 10	8 21	0 12									
M11	23 30	15 37	4 25	25 3	1 33	13 41	2 35	20 25	3 27	1 14	1 22	17 44	2 3	21 43	0 2	8 35	1 0	24 24	2 45	20 53	20 37	15 12	8 20	0 12									
T 12	23 30	18 23	3 45	25 8	1 38	14 2	2 34	20 29	3 30	1 12	1 21	17 44	2 3	21 43	0 2	8 35	1 0	24 25	2 45	20 54	20 38	15 14	8 20	0 12									
W13	23 31	20 23	2 56	25 12	1 42	14 22	2 34	20 33	3 32	1 10	1 21	17 43	2 3	21 43	0 2	8 35	1 0	24 25	2 45	20 55	20 39	15 16	8 20	0 12									
T 14	23 30	21 29	1 57	25 15	1 46	14 43	2 33	20 38	3 35	1 7	1 21	17 43	2 3	21 42	0 2	8 35	1 0	24 25	2 45	20 55	20 39	15 18	8 19	0 12									
F 15	23 30	21 35	0 53	25 17	1 49	15 3	2 32	20 42	3 37	1 5	1 21	17 42	2 2	21 42	0 2	8 36	1 0	24 25	2 45	20 56	20 40	15 20	8 19	0 11									
S 16	23 28	20 39	0s14	25 16	1 53	15 23	2 31	20 47	3 40	1 2	1 20	17 41	2 2	21 42	0 2	8 36	1 0	24 26	2 45	20 56	20 40	15 21	8 19	0 11									
S 17	23 27	18 42	1 22	25 15	1 56	15 42	2 30	20 52	3 42	0 59	1 20	17 41	2 2	21 41	0 2	8 36	1 1	24 26	2 45	20 56	20 41	15 23	8 18	0 11									
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T 19	23 22	12 7	3 26	25 7	2 1	16 20	2 28	21 3	3 47	0 54	1 19	17 40	2 1	21 41	0 2	8 36	1 1	24 27	2 46	20 55	20 42	15 27	8 18	0 11									
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F 22	23 11	2n 8	5 12	24 43	2 5	17 15	2 23	21 20	3 54	0 45	1 19	17 38	2 1	21 40	0 2	8 37	1 1	24 28	2 46	20 55	20 44	15 33	8 18	0 11									
S 23	23 6	7 13	5 15	24 32	2 6	17 32	2 22	21 26	3 57	0 42	1 18	17 38	2 1	21 39	0 2	8 37	1 1	24 28	2 46	20 55	20 45	15 35	8 18	0 11									
S 24	23 1	12 0	4 58	24 19	2 7	17 49	2 20	21 33	3 59	0 39	1 18	17 38	2 0	21 39	0 2	8 38	1 1	24 28	2 46	20 55	20 45	15 37	8 18	0 11									
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T 26	22 50	19 21	3 26	23 48	2 6	18 22	2 16	21 46	4 3	0 32	1 18	17 37	2 0	21 38	0 2	8 38	1 1	24 29	2 46	20 56	20 47	15 40	8 17	0 10									
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T 28	22 37	21 37	1 0	23 10	2 4	18 53	2 12	21 59	4 7	0 26	1 17	17 36	1 59	21 38	0 1	8 39	1 1	24 29	2 46	20 56	20 48	15 44	8 18	0 10									
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S 31	22s14	14n47	2n47	22s 2	1s56	19s36	2n 6	22n20	4n13	0s15	1s16	17n35	1s59	21n37	0s 1	8n40	1n 1	24n30	2n47	20n56	20n50	15s50	8n18	0n10									