



Astrodienst Ephemeris Tables for the year 1964

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 1964
geocentric

JANUARY 1964

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 38 45	9°35'30	0°23'1	17°R44	10°28'10	20°26	10°Y44	20°25	9°R57	17°M11	14°R10	11°21	11°21	28°M34	11°K 0	W 1
T 2	6 42 41	10°36'38	14°41	16°23'37	11°24	21°13	10°50	20°31	9°M56	17°13	14°M10	11°11	11°18	28°40	11° 2	T 2
F 3	6 46 38	11°37'47	28°26	15°22	12°38	22° 0	10°55	20°37	9°55	17°14	14° 9	11°R11	11°15	28°47	11° 4	F 3
S 4	6 50 34	12°38'55	11°M45	14° 3	13°52	22°46	11° 1	20°43	9°54	17°16	14° 9	11°11	11°12	28°54	11° 7	S 4
S 5	6 54 31	13°40'04	24°39	12°42	15° 6	23°33	11° 7	20°50	9°53	17°17	14° 8	11°11	11° 9	29° 0	11° 9	S 5
M 6	6 58 28	14°41'13	7°21	11°22	16°20	24°20	11°13	20°56	9°52	17°18	14° 7	11°11	11° 5	29° 7	11°12	M 6
T 7	7 2 24	15°42'22	19°26	10° 4	17°34	25° 6	11°19	21° 2	9°51	17°20	14° 7	11°D11	11° 2	29°14	11°14	T 7
W 8	7 6 21	16°43'31	1°M28	8°52	18°48	25°53	11°25	21° 9	9°50	17°21	14° 6	11°11	10°59	29°20	11°17	W 8
T 9	7 10 17	17°44'41	13°21	7°47	20° 2	26°40	11°32	21°15	9°49	17°23	14° 6	11°12	10°56	29°27	11°19	T 9
F 10	7 14 14	18°45'50	25°10	6°50	21°15	27°27	11°39	21°22	9°47	17°24	14° 5	11°12	10°53	29°34	11°22	F 10
S 11	7 18 10	19°47'00	6°M59	6° 3	22°29	28°14	11°46	21°28	9°46	17°25	14° 4	11°13	10°50	29°41	11°24	S 11
S 12	7 22 7	20°48'09	18°53	5°25	23°43	29° 1	11°53	21°35	9°45	17°26	14° 3	11°14	10°46	29°47	11°27	S 12
M13	7 26 3	21°49'19	0°25	4°58	24°57	29°48	12° 0	21°41	9°43	17°28	14° 2	11°15	10°43	29°54	11°30	M13
T14	7 30 0	22°50'28	13° 4	4°40	26°10	0°35	12° 7	21°48	9°42	17°29	14° 2	11°R15	10°40	0°21	11°32	T14
W15	7 33 57	23°51'36	25°25	4°D31	27°24	1°22	12°15	21°54	9°40	17°30	14° 1	11°15	10°37	0° 7	11°35	W15
T16	7 37 53	24°52'45	7°M59	4°31	28°38	2° 9	12°23	22° 1	9°39	17°31	14° 0	11°14	10°34	0°14	11°38	T16
F17	7 41 50	25°53'52	20°46	4°39	29°51	2°56	12°31	22° 8	9°37	17°32	13°59	11°12	10°31	0°21	11°41	F17
S18	7 45 46	26°54'59	3°K47	4°55	1°K 5	3°43	12°39	22°15	9°35	17°33	13°58	11°10	10°27	0°27	11°44	S18
S19	7 49 43	27°56'06	17° 1	5°18	2°18	4°30	12°47	22°21	9°33	17°34	13°57	11° 7	10°24	0°34	11°47	S19
M20	7 53 39	28°57'11	0°Y28	5°47	3°31	5°17	12°55	22°28	9°32	17°35	13°56	11° 5	10°21	0°41	11°50	M20
T21	7 57 36	29°58'16	14° 8	6°21	4°45	6° 4	13° 4	22°35	9°30	17°36	13°55	11° 3	10°18	0°47	11°53	T21
W22	8 1 32	0°59'19	28° 1	7° 1	5°58	6°52	13°12	22°42	9°28	17°37	13°54	11°D 3	10°15	0°54	11°56	W22
T23	8 5 29	2° 0'22	12°B 6	7°46	7°11	7°39	13°21	22°49	9°26	17°38	13°53	11° 3	10°11	1° 1	11°59	T23
F24	8 9 26	3° 1'24	26°22	8°35	8°24	8°26	13°30	22°56	9°24	17°39	13°52	11° 4	10° 8	1° 7	12° 2	F24
S25	8 13 22	4° 2'24	10°II46	9°27	9°37	9°13	13°39	23° 3	9°22	17°40	13°51	11° 5	10° 5	1°14	12° 5	S25
S26	8 17 19	5° 3'24	25°15	10°23	10°50	10° 1	13°48	23°10	9°20	17°41	13°50	11° 7	10° 2	1°21	12° 8	S26
M27	8 21 15	6° 4'23	9°24	11°22	12° 3	10°48	13°57	23°17	9°18	17°41	13°48	11°R 7	9°59	1°27	12°11	M27
T28	8 25 12	7° 5'20	24°11	12°24	13°16	11°35	14° 7	23°24	9°16	17°42	13°47	11° 7	9°56	1°34	12°15	T28
W29	8 29 8	8° 6'17	8°J27	13°29	14°29	12°22	14°16	23°31	9°14	17°43	13°46	11° 5	9°52	1°41	12°18	W29
T30	8 33 5	9° 7'13	22°27	14°36	15°42	13°10	14°26	23°38	9°12	17°44	13°45	11° 2	9°49	1°47	12°21	T30
F31	8 37 1	10°28'07	6°M 9	15°24	16°K54	13°57	14°Y36	23°45	9°M10	17°M44	13°M44	10°25	9°24	1°54	12°K24	F31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	23s 6	21n46	1n45	20s36	1n41	19s25	1s47	22s54	1s 2	3n 3	1s19	15s49	1s11	8n34	0n47	15s18
T 2	23 1	19 14	2 56	20 26	1 59	19 4	1 47	22 47	1 2	3 5	1 18	15 47	1 11	8 34	0 47	15 19
F 3	22 56	15 40	3 54	20 18	2 17	18 44	1 47	22 40	1 2	3 8	1 18	15 45	1 11	8 35	0 47	15 19
S 4	22 50	11 25	4 37	20 10	2 33	18 22	1 47	22 33	1 2	3 10	1 18	15 43	1 11	8 35	0 47	15 19
S 5	22 44	6 47	5 5	20 4	2 46	18 0	1 46	22 25	1 2	3 13	1 17	15 41	1 11	8 36	0 48	15 20
M 6	22 38	2 0	5 17	20 0	2 58	17 38	1 46	22 17	1 3	3 15	1 17	15 39	1 11	8 36	0 48	15 20
T 7	22 31	2s45	5 14	19 57	3 7	17 15	1 45	22 9	1 3	3 18	1 17	15 37	1 11	8 37	0 48	15 20
W 8	22 24	7 19	4 58	19 56	3 14	16 51	1 45	22 0	1 3	3 21	1 17	15 35	1 11	8 37	0 48	15 21
T 9	22 16	11 34	4 29	19 55	3 18	16 27	1 44	21 51	1 3	3 24	1 16	15 33	1 11	8 38	0 48	15 21
F 10	22 8	15 21	3 49	19 57	3 20	16 3	1 44	21 42	1 3	3 26	1 16	15 31	1 11	8 38	0 48	15 21
S 11	21 59	18 32	2 59	19 59	3 19	15 38	1 43	21 33	1 3	3 29	1 16	15 28	1 11	8 39	0 48	15 22
S 12	21 50	20 58	2 1	20 3	3 17	15 13	1 42	21 24	1 4	3 32	1 15	15 26	1 11	8 39	0 48	15 22
M13	21 40	22 29	0 57	20 8	3 13	14 48	1 41	21 14	1 4	3 35	1 15	15 24	1 11	8 40	0 48	15 22
T14	21 31	22 58	0s10	20 14	3 7	14 22	1 40	21 4	1 4	3 39	1 15	15 22	1 11	8 40	0 48	15 23
W15	21 20	22 20	1 18	20 21	3 1	13 55	1 39	20 54	1 4	3 42	1 15	15 20	1 11	8 41	0 48	15 23
T16	21 9	20 34	2 23	20 29	2 53	13 29	1 38	20 43	1 4	3 45	1 14	15 18	1 11	8 42	0 48	15 23
F17	20 58	17 45	3 22	20 37	2 45	13 2	1 36	20 33	1 4	3 48	1 14	15 16	1 11	8 42	0 48	15 23
S18	20 47	14 1	4 11	20 45	2 36	12 34	1 35	20 22	1 4	3 52	1 14	15 13	1 11	8 43	0 48	15 24
S19	20 35	9 33	4 48	20 54	2 27	12 7	1 33	20 11	1 4	3 55	1 14	15 11	1 11	8 44	0 48	15 24
M20	20 22	4 33	5 10	21 2	2 17	11 39	1 32	19 59	1 4	3 59	1 13	15 9	1 11	8 44	0 48	15 24
T21	20 10	0n44	5 15	21 10	2 7	11 10	1 30	19 48	1 5	4 2	1 13	15 7	1 11	8 45	0 48	15 24
W22	19 56	6 4	5 2	21 19	1 57	10 42	1 29	19 36	1 5	4 6	1 13	15 4	1 11	8 46	0 48	15 24
T23	19 43	11 10	4 31	21 26	1 47	10 13	1 27	19 24	1 5	4 9	1 13	15 2	1 11	8 47	0 48	15 25
F24	19 29	15 44	3 42	21 34	1 37	9 44	1 25	19 12	1 5	4 13	1 12	15 0	1 11	8 47	0 48	15 25
S25	19 15	19 26	2 40	21 40	1 26	9 15	1 23	19 0	1 5	4 17	1 12	14 58	1 11	8 48	0 48	15 25
S26	19 0	21 55	1 26	21 46	1 16	8 45	1 21	18 47	1 5	4 20	1 12	14 55	1 11	8 49	0 48	15 25
M27	18 45	22 58	0 8	21 51	1 6	8 15	1 19	18 34	1 5	4 24	1 12	14 53	1 11	8 50	0 48	15 25
T28	18 30	22 27	1n11	21 56	0 56	7 45	1 17	18 21	1 5	4 28	1 12	14 51	1 12	8 50	0 48	15 26
W29	18 15	20 29	2 25	21 59	0 47	7 15	1 14	18 8	1 5	4 32	1 11	14 49	1 12	8 51	0 48	15 26
T30	17 59	17 18	3 28	22 2	0 37	6 45	1 12	17 54	1 5	4 36	1 11	14 46	1 12	8 52	0 48	15 26
F31	17s42	13n14	4n17	22s 4	0n27	6s14	1s10	17s41	1s 5	4n40	1s11	14s44	1s12	8n53	0n48	15s26

Julian Day Number = 2438395.5, Delta T = 35.03 sec
Ecliptic obliquity = 23°26'36, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°14'15, Lahiri = 23°21'15

ASTRODIENST EPHEMERIS for the year 1964

geocentric

FEBRUARY 1964

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 40 58	11°01'	19°29'	16°56'	18°17'	14°44'	14°46'	23°52'	9°R 8	17°M45	13°R42	10°R52	9°S43	2°1	12°28	S 1
S 2	8 44 55	12° 9'54	2°27	18° 9	19°20	15°32	14°56	23°59	9°M 5	17°45	13°M41	10°S47	9°40	2° 7	12°31	S 2
M 3	8 48 51	13°10'46	15° 3	19°23	20°32	16°19	15° 6	24° 7	9° 3	17°46	13°40	10°43	9°37	2°14	12°34	M 3
T 4	8 52 48	14°11'38	27°22	20°39	21°44	17° 6	15°16	24°14	9° 1	17°47	13°39	10°40	9°33	2°21	12°38	T 4
W 5	8 56 44	15°12'28	9°M26	21°57	22°57	17°54	15°27	24°21	8°59	17°47	13°37	10°38	9°30	2°27	12°41	W 5
T 6	9 0 41	16°13'18	21°20	23°16	24° 9	18°41	15°37	24°28	8°56	17°47	13°36	10°D38	9°27	2°34	12°45	T 6
F 7	9 4 37	17°14'06	3°19	24°36	25°21	19°28	15°48	24°35	8°54	17°48	13°34	10°39	9°24	2°41	12°48	F 7
S 8	9 8 34	18°14'54	14°59	25°58	26°33	20°16	15°58	24°43	8°51	17°48	13°33	10°41	9°21	2°47	12°52	S 8
S 9	9 12 30	19°15'41	26°54	27°20	27°45	21° 3	16° 9	24°50	8°49	17°49	13°32	10°43	9°17	2°54	12°55	S 9
M10	9 16 27	20°16'27	9°S 0	28°44	28°57	21°51	16°20	24°57	8°47	17°49	13°30	10°R44	9°14	3° 1	12°59	M10
T 11	9 20 24	21°17'11	21°18	0°18	0°18	22°38	16°31	25° 4	8°44	17°49	13°29	10°43	9°11	3° 7	13° 2	T 11
W12	9 24 20	22°17'55	3°15	1°35	1°20	23°26	16°42	25°12	8°42	17°49	13°27	10°40	9° 8	3°14	13° 6	W12
T 13	9 28 17	23°18'37	16°45	3° 2	2°32	24°13	16°54	25°19	8°39	17°50	13°26	10°36	9° 5	3°21	13°10	T 13
F 14	9 32 13	24°19'18	29°55	4°30	3°43	25° 0	17° 5	25°26	8°37	17°50	13°25	10°29	9° 2	3°28	13°13	F 14
S 15	9 36 10	25°19'57	13°12	5°58	4°55	25°48	17°16	25°33	8°34	17°50	13°23	10°22	8°58	3°34	13°17	S 15
S 16	9 40 6	26°20'34	27° 2	7°28	6° 6	26°35	17°28	25°41	8°32	17°50	13°22	10°14	8°55	3°41	13°20	S 16
M17	9 44 3	27°21'10	10°15	8°59	7°17	27°23	17°40	25°48	8°29	17°50	13°20	10° 6	8°52	3°48	13°24	M17
T 18	9 47 59	28°21'45	24°53	10°31	8°28	28°10	17°51	25°55	8°26	17°50	13°19	10° 0	8°49	3°54	13°28	T 18
W19	9 51 56	29°22'17	8°15	12° 3	9°39	28°58	18° 3	26° 2	8°24	17°R50	13°17	9°56	8°46	4° 1	13°31	W19
T 20	9 55 53	0°12'48	23° 3	13°37	10°50	29°45	18°15	26°10	8°21	17°50	13°16	9°54	8°42	4° 8	13°35	T 20
F 21	9 59 49	1°23'14	7°11	15°11	12° 0	0°13	18°27	26°17	8°19	17°50	13°14	9°D54	8°39	4°14	13°39	F 21
S 22	10 3 46	2°23'44	21°18	16°47	13°11	1°20	18°39	26°24	8°16	17°50	13°12	9°55	8°36	4°21	13°42	S 22
S 23	10 7 42	3°24'09	5°23	18°23	14°21	2° 7	18°51	26°31	8°13	17°50	13°11	9°R56	8°33	4°28	13°46	S 23
M24	10 11 39	4°24'33	19°25	20° 1	15°32	2°55	19° 4	26°38	8°11	17°50	13° 9	9°55	8°30	4°34	13°50	M24
T 25	10 15 35	5°24'54	3°12	21°39	16°42	3°42	19°16	26°46	8° 8	17°50	13° 8	9°53	8°27	4°41	13°54	T 25
W26	10 19 32	6°25'14	17°12	23°18	17°52	4°30	19°28	26°53	8° 6	17°49	13° 6	9°48	8°23	4°48	13°57	W26
T 27	10 23 28	7°25'31	0°15	24°58	19° 2	5°17	19°41	27° 0	8° 3	17°49	13° 5	9°41	8°20	4°54	14° 1	T 27
F 28	10 27 25	8°25'47	14°16	26°40	20°12	6° 4	19°53	27° 7	8° 0	17°49	13° 3	9°31	8°17	5° 1	14° 5	F 28
S 29	10 31 22	9°16'01	27°15	28°22	21°12	6°12	20°10	27°14	7°18	17°M48	13°12	9°S20	8°14	5°18	14°14	S 29

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	17s26	8n38 4n51	22s 4 0n18	5s44 1s 7	17s27 1s 5	4n44 1s11	14s42 1s12	8n54 0n48	15s26 1n46	19n27 14n11	23n 0 23n 5	17s29 2s34	4n41			
S 2	17 9 3 45	5 9 22 4	0 9 5 13	1 5 17 13	1 5 4 48	1 10 14 39	1 12 8 55	0 48 15 26	1 46 19 28	14 11 23 0	23 5 17 31	2 33 4 40				
M 3	16 52 1s 8	5 12 22 2	0 0 4 42	1 2 16 59	1 5 4 52	1 10 14 37	1 12 8 56	0 48 15 26	1 46 19 29	14 12 23 1	23 6 17 33	2 31 4 40				
T 4	16 34 5 52	5 0 21 59	0s 8 4 11	0 59 16 45	1 5 4 56	1 10 14 35	1 12 8 56	0 48 15 26	1 46 19 30	14 12 23 1	23 6 17 35	2 30 4 40				
W 5	16 17 10 18	4 34 21 56	0 17 3 40	0 56 16 30	1 5 5 0	1 10 14 32	1 12 8 57	0 48 15 26	1 46 19 30	14 12 23 1	23 6 17 37	2 29 4 40				
T 6	15 59 14 17	3 57 21 51	0 25 3 9	0 53 16 15	1 5 5 5	1 10 14 30	1 12 8 58	0 49 15 27	1 46 19 31	14 13 23 1	23 6 17 39	2 28 4 40				
F 7	15 40 17 40	3 11 21 44	0 33 2 37	0 51 16 0	1 5 5 9	1 9 14 27	1 12 8 59	0 49 15 27	1 46 19 32	14 13 23 1	23 7 17 41	2 27 4 40				
S 8	15 22 20 21	2 16 21 37	0 40 2 6	0 47 15 45	1 5 5 13	1 9 14 25	1 12 9 0	0 49 15 27	1 46 19 33	14 13 23 1	23 7 17 43	2 26 4 39				
S 9	15 3 22 10	1 15 21 28	0 47 1 34	0 44 15 30	1 5 5 18	1 9 14 23	1 12 9 1	0 49 15 27	1 46 19 33	14 13 23 1	23 7 17 45	2 24 4 39				
M10	14 44 22 59	0 9 21 18	0 55 1 3	0 41 15 15	1 5 5 22	1 9 14 20	1 12 9 2	0 49 15 27	1 46 19 34	14 14 23 1	23 7 17 46	2 23 4 39				
T 11	14 24 22 42	0s57 21 7	1 1 0 32	0 38 14 59	1 5 5 26	1 9 14 18	1 12 9 3	0 49 15 27	1 46 19 35	14 14 23 1	23 8 17 48	2 22 4 39				
W12	14 5 21 16	2 2 20 55	1 8 0n 0	0 35 14 44	1 5 5 31	1 8 14 16	1 12 9 4	0 49 15 27	1 46 19 36	14 14 23 1	23 8 17 50	2 21 4 39				
T 13	13 45 18 43	3 3 20 41	1 14 0 32	0 31 14 28	1 4 5 35	1 8 14 13	1 12 9 5	0 49 15 27	1 46 19 37	14 14 23 1	23 8 17 52	2 20 4 39				
F 14	13 25 15 10	3 55 20 26	1 20 1 3	0 28 14 12	1 4 5 40	1 8 14 11	1 12 9 6	0 49 15 27	1 46 19 37	14 15 23 2	23 8 17 54	2 18 4 39				
S 15	13 5 10 46	4 35 20 10	1 26 1 35	0 25 13 56	1 4 5 44	1 8 14 8	1 12 9 7	0 49 15 27	1 47 19 38	14 15 23 2	23 8 17 56	2 17 4 38				
S 16	12 44 5 46	5 0 19 52	1 31 2 6	0 21 13 40	1 4 5 49	1 8 14 6	1 12 9 8	0 49 15 27	1 47 19 39	14 15 23 3	23 9 17 58	2 16 4 38				
M17	12 24 0 25	5 8 19 33	1 36 2 37	0 17 13 23	1 4 5 54	1 7 14 4	1 12 9 9	0 49 15 27	1 47 19 40	14 15 23 4	23 9 18 0	2 15 4 38				
T 18	12 3 5n 1	4 58 19 13	1 41 3 9	0 14 13 7	1 4 5 58	1 7 14 1	1 13 9 10	0 49 15 27	1 47 19 40	14 15 23 4	23 9 18 2	2 13 4 38				
W19	11 42 10 13	4 29 18 52	1 45 3 40	0 10 12 50	1 4 6 3	1 7 13 59	1 13 9 11	0 49 15 27	1 47 19 41	14 16 23 4	23 9 18 4	2 12 4 38				
T 20	11 20 14 55	3 45 18 29	1 49 4 11	0 6 12 33	1 4 6 8	1 7 13 56	1 13 9 11	0 49 15 26	1 47 19 42	14 16 23 4	23 9 18 6	2 11 4 38				
F 21	10 59 18 46	2 47 18 5	1 53 4 43	0 2 12 16	1 4 6 12	1 7 13 54	1 13 9 12	0 49 15 26	1 47 19 43	14 16 23 4	23 10 18 8	2 9 4 38				
S 22	10 37 21 31	1 39 17 39	1 56 5 14	0n 1 11 59	1 3 6 17	1 7 13 52	1 13 9 13	0 49 15 26	1 47 19 43	14 16 23 4	23 10 18 10	2 8 4 38				
S 23	10 16 22 56	0 24 17 12	1 59 5 45	0 5 11 42	1 3 6 22	1 6 13 49	1 13 9 14	0 49 15 26	1 47 19 44	14 16 23 4	23 10 18 12	2 7 4 37				
M24	9 54 22 53	0n51 16 44	2 2 6 15	0 9 11 25	1 3 6 27	1 6 13 47	1 13 9 15	0 49 15 26	1 47 19 45	14 16 23 4	23 10 18 14	2 5 4 37				
T 25	9 32 21 23	2 2 16 15	2 4 6 46	0 13 11 8	1 3 6 31	1 6 13 44	1 13 9 16	0 49 15 26	1 47 19 46	14 16 23 5	23 10 18 16	2 4 4 37				
W26	9 9 18 38	3 6 15 44	2 6 7 17	0 17 10 50	1 3 6 36	1 6 13 42	1 13 9 17	0 49 15 26	1 47 19 46	14 17 23 5	23 11 18 18	2 3 4 37				
T 27	8 47 14 53	3 58 15 12	2 7 7 47	0 21 10 33	1 3 6 41	1 6 13 40	1 13 9 18	0 49 15 26	1 47 19 47	14 17 23 5	23 11 18 19	2 1 4 37				
F 28	8 25 10 25	4 35 14 38	2 8 8 17	0 25 10 15	1 2 6 46	1 6 13 37	1 13 9 19	0 49 15 26	1 47 19 48	14 17 23 6	23 11 18 21	2 0 4 37				
S 29	8s 2 5n34	4n57 14s 3	2s 9 8n47	0n30 9s58	1s 2 6n51	1s 5 13s35	1s13 9n20	0n49 15s25	1n47 19n49	14n17 23n 7	23n11 18s23	1s59 4n37				

Julian Day Number = 2438426.5, Delta T = 35.08 sec
 Ecliptic obliquity = 23°26'37", Nutation = - 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°14'19", Lahiri = 23°21'20"

ASTRODIENST EPHEMERIS for the year 1964

geocentric

MARCH 1964

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 35 18	10°26'14	10°17	0°5	22°31	7°39	20°19	27°21	7°R55	17°R48	13°R 0	9°R 9	8°11	5°14	14°12	S 1
M 2	10 39 15	11°26'24	22°51	1°49	23°40	8°26	20°31	27°29	7°R52	17°R48	12°R58	8°59	8° 8	5°21	14°16	M 2
T 3	10 43 11	12°26'34	5°M 9	3°35	24°49	9°14	20°44	27°36	7°50	17°47	12°57	8°51	8° 4	5°28	14°20	T 3
W 4	10 47 8	13°26'41	17°13	5°21	25°58	10° 1	20°57	27°43	7°47	17°47	12°55	8°45	8° 1	5°34	14°24	W 4
T 5	10 51 4	14°26'47	29° 7	7° 9	27° 7	10°48	21°10	27°50	7°45	17°46	12°54	8°41	7°58	5°41	14°27	T 5
F 6	10 55 1	15°26'52	10°27	8°57	28°16	11°36	21°23	27°57	7°42	17°46	12°52	8°D40	7°55	5°48	14°31	F 6
S 7	10 58 57	16°26'55	22°46	10°47	29°24	12°23	21°36	28° 4	7°39	17°45	12°51	8°40	7°52	5°54	14°35	S 7
S 8	11 2 54	17°26'56	4°342	12°38	0°832	13°10	21°49	28°11	7°37	17°45	12°49	8°R40	7°48	6° 1	14°39	S 8
M 9	11 6 51	18°26'56	16°48	14°30	1°40	13°57	22° 2	28°18	7°34	17°44	12°47	8°40	7°45	6° 8	14°43	M 9
T 10	11 10 47	19°26'54	29°10	16°23	2°48	14°45	22°16	28°25	7°32	17°43	12°46	8°38	7°42	6°14	14°46	T 10
W11	11 14 44	20°26'50	11°52	18°17	3°56	15°32	22°29	28°32	7°29	17°43	12°44	8°34	7°39	6°21	14°50	W11
T 12	11 18 40	21°26'45	24°57	20°12	5° 4	16°19	22°42	28°39	7°27	17°42	12°43	8°27	7°36	6°28	14°54	T 12
F 13	11 22 37	22°26'37	8°H25	22° 8	6°11	17° 6	22°56	28°46	7°24	17°41	12°41	8°17	7°33	6°34	14°58	F 13
S 14	11 26 33	23°26'28	22°14	24° 5	7°18	17°53	23° 9	28°52	7°22	17°40	12°40	8° 6	7°29	6°41	15° 1	S 14
S 15	11 30 30	24°26'17	6°Y21	26° 3	8°25	18°41	23°23	28°59	7°19	17°40	12°38	7°54	7°26	6°48	15° 5	S 15
M16	11 34 26	25°26'04	20°41	28° 1	9°32	19°28	23°36	29° 6	7°17	17°39	12°36	7°43	7°23	6°54	15° 9	M16
T 17	11 38 23	26°25'48	5°8 7	0°Y 0	10°39	20°15	23°50	29°13	7°14	17°38	12°35	7°33	7°20	7° 1	15°12	T 17
W18	11 42 19	27°25'31	19°33	2° 0	11°45	21° 2	24° 4	29°19	7°12	17°37	12°33	7°26	7°17	7° 8	15°16	W18
T 19	11 46 16	28°25'11	3°II55	4° 0	12°51	21°49	24°17	29°26	7° 9	17°36	12°32	7°22	7°14	7°14	15°20	T 19
F 20	11 50 13	29°24'49	18° 9	6° 1	13°57	22°36	24°31	29°33	7° 7	17°35	12°30	7°20	7°10	7°21	15°24	F 20
S 21	11 54 9	0°Y24'25	2°213	8° 1	15° 3	23°23	24°45	29°39	7° 5	17°34	12°29	7°20	7° 7	7°28	15°27	S 21
S 22	11 58 6	1°23'59	16° 7	10° 1	16° 8	24°10	24°59	29°46	7° 2	17°33	12°27	7°20	7° 4	7°34	15°31	S 22
M23	12 2 2	2°23'30	29°52	12° 0	17°13	24°57	25°13	29°52	7° 0	17°32	12°26	7°19	7° 1	7°41	15°35	M23
T 24	12 5 59	3°22'59	13°26	13°58	18°18	25°44	25°27	29°59	6°58	17°31	12°25	7°15	6°58	7°48	15°38	T 24
W25	12 9 55	4°22'25	26°51	15°55	19°23	26°31	25°40	0°H 5	6°55	17°30	12°23	7° 9	6°54	7°54	15°42	W25
T 26	12 13 52	5°21'49	10°M 5	17°50	20°27	27°17	25°54	0°12	6°53	17°29	12°22	6°59	6°51	8° 1	15°45	T 26
F 27	12 17 48	6°21'11	23° 8	19°44	21°31	28° 4	26° 8	0°18	6°51	17°28	12°20	6°47	6°48	8° 7	15°49	F 27
S 28	12 21 45	7°20'31	5°258	21°34	22°35	28°51	26°22	0°24	6°49	17°27	12°19	6°34	6°45	8°14	15°52	S 28
S 29	12 25 42	8°19'49	18°36	23°22	23°38	29°38	26°37	0°31	6°47	17°26	12°17	6°20	6°42	8°21	15°56	S 29
M30	12 29 38	9°19'05	1°M 0	25° 7	24°42	0°Y25	26°51	0°37	6°45	17°25	12°16	6° 8	6°39	8°27	16° 0	M30
T 31	12 33 35	10°Y18'19	13°M11	26°Y48	25°844	1°Y11	27°Y 5	0°H43	6°M43	17°M23	12°M15	5°257	6°235	8°234	16°H 3	T 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7s39	0n35	5n 4	13s27	2s 9	9n17	0n34	9s40	1s 2	6n56	1s 5	13s32	1s13	9n21	0n49	15s25	1n47	19n49	14n17	23n 8	23n11	18s25	1s57	4n37	
M 2	7 16	4s19	4 55	12 50	2 9	9 47	0 38	9 22	1 2	7 1	1 5	13 30	1 14	9 22	0 49	15 25	1 47	19 50	14 17	23 8	23 12	18 27	1 56	4 37	
T 3	6 54	8 57	4 33	12 11	2 8	10 16	0 42	9 4	1 2	7 6	1 5	13 28	1 14	9 23	0 49	15 25	1 48	19 51	14 17	23 9	23 12	18 29	1 55	4 37	
W 4	6 31	13 9	3 59	11 31	2 7	10 45	0 47	8 46	1 1	7 11	1 5	13 25	1 14	9 24	0 49	15 25	1 48	19 51	14 17	23 9	23 12	18 31	1 53	4 37	
T 5	6 7	16 48	3 15	10 50	2 5	11 14	0 51	8 28	1 1	7 16	1 5	13 23	1 14	9 25	0 49	15 25	1 48	19 52	14 17	23 10	23 12	18 33	1 52	4 37	
F 6	5 44	19 45	2 22	10 7	2 3	11 43	0 55	8 9	1 1	7 21	1 5	13 21	1 14	9 26	0 49	15 24	1 48	19 53	14 17	23 10	23 12	18 35	1 50	4 37	
S 7	5 21	21 51	1 24	9 23	2 1	12 11	1 0	7 51	1 1	7 26	1 4	13 18	1 14	9 27	0 49	15 24	1 48	19 53	14 17	23 10	23 13	18 36	1 49	4 36	
S 8	4 58	23 0	0 21	8 38	1 58	12 40	1 4	7 33	1 1	7 31	1 4	13 16	1 14	9 28	0 49	15 24	1 48	19 54	14 17	23 10	23 13	18 38	1 48	4 36	
M 9	4 34	23 6	0s43	7 51	1 54	13 8	1 8	7 14	1 0	7 36	1 4	13 14	1 14	9 29	0 49	15 24	1 48	19 55	14 17	23 10	23 13	18 40	1 46	4 36	
T 10	4 11	22 4	1 47	7 4	1 50	13 35	1 13	6 56	1 0	7 41	1 4	13 11	1 14	9 30	0 49	15 24	1 48	19 55	14 17	23 10	23 13	18 42	1 45	4 36	
W11	3 47	19 54	2 47	6 15	1 45	14 2	1 17	6 37	1 0	7 46	1 4	13 9	1 14	9 31	0 49	15 23	1 48	19 56	14 17	23 10	23 13	18 44	1 43	4 36	
T 12	3 24	16 39	3 39	5 25	1 40	14 29	1 21	6 19	0 59	7 51	1 4	13 7	1 15	9 32	0 49	15 23	1 48	19 56	14 17	23 10	23 14	18 46	1 42	4 36	
F 13	3 0	12 28	4 22	4 34	1 34	14 56	1 26	6 0	0 59	7 56	1 4	13 4	1 15	9 33	0 49	15 23	1 48	19 57	14 17	23 11	23 14	18 48	1 41	4 36	
S 14	2 36	7 31	4 50	3 42	1 28	15 23	1 30	5 42	0 59	8 1	1 3	13 2	1 15	9 34	0 49	15 23	1 48	19 58	14 17	23 12	23 14	18 50	1 39	4 36	
S 15	2 13	2 5	5 1	2 49	1 21	15 49	1 35	5 23	0 59	8 6	1 3	13 0	1 15	9 35	0 49	15 22	1 48	19 58	14 17	23 12	23 14	18 51	1 38	4 36	
M16	1 49	3n33	4 53	1 55	1 14	16 14	1 39	5 4	0 58	8 11	1 3	12 58	1 15	9 36	0 49	15 22	1 48	19 59	14 17	23 13	23 14	18 53	1 36	4 36	
T 17	1 25	9 2	4 27	1 0	1 6	16 39	1 44	4 45	0 58	8 16	1 3	12 55	1 15	9 36	0 49	15 22	1 48	19 59	14 17	23 14	23 14	18 55	1 35	4 36	
W18	1 1	14 2	3 44	0 5	0 58	17 4	1 48	4 26	0 58	8 22	1 3	12 53	1 15	9 37	0 49	15 21	1 48	20 0	14 17	23 14	23 15	18 57	1 34	4 36	
T 19	0 38	18 12	2 47	0n51	0 49	17 29	1 52	4 8	0 57	8 27	1 3	12 51	1 15	9 38	0 49	15 21	1 48	20 1	14 17	23 14	23 15	18 59	1 32	4 36	
F 20	0 14	21 16	1 40	1 47	0 39	17 53	1 57	3 49	0 57	8 32	1 3	12 49	1 15	9 39	0 49	15 21	1 48	20 1	14 17	23 14	23 15	19 1	1 31	4 36	
S 21	0n10	22 58	0 27	2 44	0 29	18 17	2 1	3 30	0 57	8 37	1 3	12 46	1 16	9 40	0 49	15 21	1 48	20 2	14 17	23 14	23 15	19 2	1 29	4 36	
S 22	0 33	23 14	0n46	3 41	0 19	18 40	2 5	3 11	0 56	8 42	1 3	12 44	1 16	9 41	0 49	15 20	1 49	20 2	14 17	23 14	23 15	19 4	1 28	4 36	
M23	0 57	22 4	1 56	4 38	0 8	19 3	2 10	2 52	0 56	8 47	1 2	12 42	1 16	9 42	0 49	15 20	1 49	20 3	14 17	23 15	23 15	19 6	1 26	4 36	
T 24	1 21	19 38	2 58	5 34	0n 3	19 26	2 14	2 33	0 56	8 52	1 2	12 40	1 16	9 43	0 49	15 20	1 49	20 3	14 17	23 15	23 16	19 8	1 25	4 36	
W25	1 44	16 10	3 50	6 30	0 15	19 48	2 18	2 14	0 55	8 58	1 2	12 38	1 16	9 43	0 49	15 19	1 49	20 4	14 17	23 15	23 16	19 10	1 24	4 36	
T 26	2 8	11 55	4 28	7 25	0 27	20 9	2 23	1 55	0 55	9 3	1 2	12 36	1 16	9 44	0 48	15 19	1 49	20 4	14 17	23 16	23 16	19 12	1 22	4 36	
F 27	2 31	7 11	4 52	8 19	0 39	20 31	2 27	1 36	0 55	9 8	1 2	12 33	1 16	9 45	0 48	15 19	1 49	20 4	14 17	23 16	23 16	19 13	1 21	4 36	
S 28	2 55	2 13	5 0	9 12	0 51	20 51	2 31	1 17	0 54	9 13	1 2	12 31	1 16	9 46	0 48	15 18	1 49	20 5	14 16	23 17	23 16	19 15	1 19	4 36	
S 29	3 18	2s46	4 53	10 3	1 3	21 11	2 35	0 58	0 54	9 18	1 2	12 29	1 17	9 46	0 48	15 18	1 49	20 5	14 16	23 18	23 16	19 17	1 18	4 36	
M30	3 42	7 34	4 33	10 53	1 15	21 31	2 39	0 39	0 54	9 23	1 2	12 27	1 17	9 47	0 48	15 17	1 49	20 6	14 16	23 18	23 17	19 19	1 17	4 36	
T 31	4n 5	11s59	4n 0	11n40	1n26	21n50	2n43	0s20	0s53	9n28	1s 2	12s25	1s17	9n48	0n48	15s17	1n49	20n 6	14n16	23n19	23n17	19s21	1s15	4n37	

ASTRODIENST EPHEMERIS for the year 1964
geocentric

APRIL 1964

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 37 31	11°17'31	25°11'12	28°17'24	26°18'47	1°17'58	27°17'19	0°18'49	6°18'41	17°17'22	12°17'13	5°17'48	6°17'32	8°17'41	16°17'16	W 1
T 2	12 41 28	12°16'41	7°17'4	29°56	27°49	2°45	27°33	0°55	6°17'39	17°17'21	12°17'12	5°17'43	6°17'29	8°17'47	16°17'10	T 2
F 3	12 45 24	13°15'49	18°53	1°18'24	28°51	3°31	27°47	1°1	6°17'37	17°17'20	12°17'11	5°17'40	6°17'26	8°17'54	16°17'13	F 3
S 4	12 49 21	14°14'56	0°34	2°46	29°52	4°18	28°1	1°7	6°17'35	17°17'18	12°17'9	5°17'39	6°17'23	9°17'1	16°17'17	S 4
S 5	12 53 17	15°14'01	12°36	4°3	0°11'53	5°4	28°16	1°13	6°17'33	17°17'17	12°17'8	5°17'39	6°17'19	9°17'7	16°17'20	S 5
M 6	12 57 14	16°13'04	24°41	5°15	1°54	5°51	28°30	1°19	6°17'31	17°17'16	12°17'7	5°17'39	6°17'16	9°17'14	16°17'24	M 6
T 7	13 1 11	17°12'05	7°22	6°20	2°54	6°37	28°44	1°25	6°17'29	17°17'14	12°17'6	5°17'38	6°17'13	9°17'21	16°17'27	T 7
W 8	13 5 7	18°11'05	19°46	7°20	3°54	7°24	28°59	1°30	6°17'27	17°17'13	12°17'4	5°17'34	6°17'10	9°17'27	16°17'30	W 8
T 9	13 9 4	19°10'03	2°18'54	8°13	4°54	8°10	29°13	1°36	6°17'26	17°17'12	12°17'3	5°17'28	6°17'7	9°17'34	16°17'34	T 9
F 10	13 13 0	20°8'59	16°29	9°0	5°53	8°56	29°27	1°42	6°17'24	17°17'10	12°17'2	5°17'19	6°17'4	9°17'41	16°17'37	F 10
S 11	13 16 57	21°7'53	0°17'31	9°41	6°52	9°43	29°42	1°47	6°17'22	17°17'9	12°17'1	5°17'9	6°17'0	9°17'47	16°17'40	S 11
S 12	13 20 53	22°6'45	14°56	10°16	7°50	10°29	29°56	1°53	6°17'21	17°17'7	12°17'0	4°17'58	5°17'57	9°17'54	16°17'43	S 12
M13	13 24 50	23°5'35	29°37	10°44	8°47	11°15	0°18'10	1°58	6°17'19	17°17'6	11°17'59	4°17'47	5°17'54	10°17'1	16°17'47	M13
T 14	13 28 46	24°4'23	14°18'28	11°5	9°45	12°2	0°25	2°4	6°17'18	17°17'4	11°17'57	4°17'38	5°17'51	10°17'10	16°17'50	T 14
W15	13 32 43	25°3'09	29°19	11°20	10°42	12°48	0°39	2°9	6°17'16	17°17'3	11°17'56	4°17'31	5°17'48	10°17'14	16°17'53	W15
T 16	13 36 40	26°1'53	14°11'3	11°29	11°38	13°34	0°53	2°14	6°17'15	17°17'2	11°17'55	4°17'28	5°17'45	10°17'21	16°17'56	T 16
F 17	13 40 36	27°0'35	28°34	11°R31	12°34	14°20	1°8	2°19	6°17'13	17°17'0	11°17'54	4°17'D26	5°17'41	10°17'27	16°17'59	F 17
S 18	13 44 33	27°59'15	12°18'49	11°28	13°29	15°6	1°22	2°25	6°17'12	16°17'59	11°17'53	4°17'26	5°17'38	10°17'34	17°17'2	S 18
S 19	13 48 29	28°57'52	26°45	11°18	14°23	15°52	1°37	2°30	6°17'11	16°17'57	11°17'52	4°17'R27	5°17'35	10°17'41	17°17'5	S 19
M20	13 52 26	29°56'27	10°18'24	11°4	15°17	16°38	1°51	2°35	6°17'9	16°17'55	11°17'51	4°17'26	5°17'32	10°17'47	17°17'8	M20
T 21	13 56 22	0°18'55'00	23°47	10°44	16°11	17°24	2°5	2°40	6°17'8	16°17'54	11°17'50	4°17'24	5°17'29	10°17'54	17°17'11	T 21
W22	14 0 19	1°53'31	6°17'56	10°19	17°3	18°10	2°20	2°44	6°17'7	16°17'52	11°17'50	4°17'19	5°17'25	11°17'1	17°17'14	W22
T 23	14 4 15	2°51'59	19°51	9°51	17°55	18°56	2°34	2°49	6°17'6	16°17'51	11°17'49	4°17'12	5°17'22	11°17'11	17°17'17	T 23
F 24	14 8 12	3°50'26	2°18'34	9°18	18°47	19°41	2°49	2°54	6°17'5	16°17'49	11°17'48	4°17'3	5°17'19	11°17'14	17°17'20	F 24
S 25	14 12 9	4°48'50	15°6	8°43	19°37	20°27	3°3	2°59	6°17'4	16°17'48	11°17'47	3°17'52	5°17'16	11°17'21	17°17'22	S 25
S 26	14 16 5	5°47'12	27°27	8°6	20°27	21°13	3°17	3°3	6°17'3	16°17'46	11°17'46	3°17'41	5°17'13	11°17'27	17°17'25	S 26
M27	14 20 2	6°45'33	9°18'38	7°27	21°16	21°58	3°32	3°8	6°17'2	16°17'44	11°17'45	3°17'31	5°17'10	11°17'34	17°17'28	M27
T 28	14 23 58	7°43'52	21°40	6°47	22°5	22°44	3°46	3°12	6°17'1	16°17'43	11°17'45	3°17'22	5°17'6	11°17'41	17°17'31	T 28
W29	14 27 55	8°42'09	3°17'35	6°8	22°52	23°30	4°1	3°16	6°17'1	16°17'41	11°17'44	3°17'16	5°17'3	11°17'47	17°17'33	W29
T 30	14 31 51	9°40'24	15°17'25	5°18'28	23°11'39	24°17'15	4°18'15	3°17'21	6°17'0	16°17'40	11°17'43	3°17'12	5°17'0	11°17'54	17°17'36	T 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
W 1	4n28	15s53	3n17	12n26	1n38	22n 9	2n47	0s 1	0s53	9n34	1s 2	12s23	1s17	9n49	0n48	15s17	1n49	20n 7	14n16	23n19	23n17	19s22	1s14	4n37	
T 2	4 51	19 7	2 25	13 9	1 49	22 27	2 51	0n17	0 52	9 39	1 2	12 21	1 17	9 49	0 48	15 16	1 49	20 7	14 16	23 19	23 17	19 24	1 12	4 37	
F 3	5 14	21 31	1 28	13 50	2 0	22 45	2 55	0 36	0 52	9 44	1 1	12 19	1 17	9 50	0 48	15 16	1 49	20 7	14 16	23 19	23 17	19 26	1 11	4 37	
S 4	5 37	23 0	0 26	14 28	2 10	23 2	2 59	0 55	0 52	9 49	1 1	12 17	1 17	9 51	0 48	15 16	1 49	20 8	14 15	23 19	23 17	19 28	1 10	4 37	
S 5	6 0	23 27	0s37	15 3	2 19	23 19	3 3	1 14	0 51	9 54	1 1	12 15	1 18	9 51	0 48	15 15	1 49	20 8	14 15	23 19	23 18	19 30	1 8	4 37	
M 6	6 23	22 49	1 39	15 36	2 28	23 35	3 7	1 33	0 51	9 59	1 1	12 13	1 18	9 52	0 48	15 15	1 49	20 8	14 15	23 19	23 18	19 31	1 7	4 37	
T 7	6 45	21 4	2 38	16 5	2 36	23 51	3 10	1 52	0 50	10 5	1 1	12 11	1 18	9 53	0 48	15 14	1 49	20 9	14 15	23 19	23 18	19 33	1 6	4 37	
W 8	7 8	18 14	3 31	16 32	2 43	24 6	3 14	2 10	0 50	10 10	1 1	12 9	1 18	9 53	0 48	15 14	1 49	20 9	14 15	23 20	23 18	19 35	1 4	4 37	
T 9	7 30	14 24	4 15	16 55	2 49	24 21	3 17	2 29	0 49	10 15	1 1	12 7	1 18	9 54	0 48	15 13	1 49	20 9	14 15	23 20	23 18	19 37	1 3	4 37	
F 10	7 53	9 43	4 46	17 15	2 54	24 35	3 21	2 48	0 49	10 20	1 1	12 6	1 18	9 55	0 48	15 13	1 49	20 9	14 14	23 20	23 18	19 38	1 2	4 37	
S 11	8 15	4 24	5 1	17 32	2 58	24 49	3 24	3 6	0 48	10 25	1 1	12 4	1 18	9 55	0 48	15 13	1 49	20 10	14 14	23 21	23 18	19 40	1 0	4 37	
S 12	8 37	1n19	4 57	17 46	3 1	25 2	3 27	3 25	0 48	10 30	1 1	12 2	1 19	9 56	0 48	15 12	1 49	20 10	14 14	23 21	23 19	19 42	0 59	4 37	
M13	8 59	7 4	4 34	17 56	3 3	25 14	3 30	3 43	0 48	10 35	1 1	12 0	1 19	9 56	0 48	15 12	1 49	20 10	14 14	23 21	23 19	19 44	0 58	4 37	
T 14	9 20	12 29	3 53	18 4	3 3	25 26	3 33	4 2	0 47	10 40	1 1	11 58	1 19	9 57	0 48	15 11	1 49	20 10	14 13	23 22	23 19	19 45	0 56	4 38	
W15	9 42	17 10	2 55	18 7	3 3	25 37	3 36	4 20	0 47	10 45	1 1	11 57	1 19	9 57	0 48	15 11	1 49	20 11	14 13	23 22	23 19	19 47	0 55	4 38	
T 16	10 3	20 44	1 46	18 8	3 0	25 48	3 39	4 39	0 46	10 50	1 1	11 55	1 19	9 58	0 48	15 10	1 49	20 11	14 13	23 22	23 19	19 49	0 54	4 38	
F 17	10 25	22 55	0 31	18 5	2 57	25 59	3 42	4 57	0 46	10 55	1 1	11 53	1 19	9 58	0 48	15 10	1 49	20 11	14 13	23 22	23 19	19 51	0 52	4 38	
S 18	10 46	23 34	0n44	18 0	2 52	26 8	3 45	5 15	0 45	11 0	1 0	11 51	1 20	9 59	0 48	15 10	1 49	20 11	14 12	23 22	23 19	19 52	0 51	4 38	
S 19	11 7	22 42	1 56	17 51	2 45	26 17	3 47	5 33	0 45	11 5	1 0	11 50	1 20	9 59	0 48	15 9	1 49	20 11	14 12	23 22	23 20	19 54	0 50	4 38	
M20	11 27	20 31	2 59	17 38	2 37	26 26	3 50	5 52	0 44	11 10	1 0	11 48	1 20	10 0	0 48	15 9	1 49	20 11	14 12	23 22	23 20	19 56	0 49	4 38	
T 21	11 48	17 14	3 52	17 23	2 28	26 34	3 52	6 10	0 44	11 15	1 0	11 46	1 20	10 0	0 48	15 8	1 49	20 12	14 12	23 22	23 20	19 58	0 47	4 38	
W22	12 8	13 9	4 30	17 6	2 18	26 42	3 54	6 27	0 43	11 20	1 0	11 45	1 20	10 0	0 48	15 8	1 49	20 12	14 11	23 22	23 20	19 59	0 46	4 38	
T 23	12 28	8 32	4 55	16 45	2 6	26 49	3 56	6 45	0 43	11 25	1 0	11 43	1 20	10 1	0 48	15 7	1 50	20 12	14 11	23 23	23 20	20 1	0 45	4 39	
F 24	12 48	3 38	5 4	16 23	1 53	26 55	3 58	7 3	0 42	11 30	1 0	11 42	1 21	10 1	0 48	15 7	1 50	20 12	14 11	23 23	23 20	20 3	0 44	4 39	
S 25	13 8	1s21	4 58	15 58	1 39	27 1	4 0	7 21	0 42	11 35	1 0	11 40	1 21	10 2	0 48	15 6	1 50	20 12	14 11	23 23	23 20	20 4	0 42	4 39	
S 26	13 27	6 14	4 39	15 32	1 24	27 7	4 1	7 38	0 41	11 40	1 0	11 39	1 21	10 2	0 48	15 6	1 50	20 12	14 10	23 24	23 20	20 6	0 41	4 39	
M27	13 46	10 48	4 7	15 4	1 8	27 12	4 3	7 56	0 41	11 45	1 0	11 37	1 21	10 2	0 48	15 5	1 50	20 12	14 10	23 24	23 21	20 8	0 40	4 39	
T 28	14 5	14 54	3 24	14 36	0 52	27 16	4 4	8 13	0 40	11 50	1 0	11 36	1 21	10 2	0 47	15 5	1 50	20 12	14 10	23 24	23 21	20 9	0 39	4 39	
W29	14 24	18 23	2 32	14 7	0 35	27 20	4 5	8 31	0 40	11 55	1 0	11 34	1 22	10 3	0 47	15 5	1 50	20 12	14 9	23 24	23 21	20 11	0 38	4 39	
T 30	14n43	21s 5	1n34	13n37	0n17	27n23	4n 6	8n48	0s39	12n 0	1s 0	11s33	1s22	10n 3	0n47	15s 4	1n50	20n12	14n 9	23n24	23n21	20s13	0s37	4n39	

ASTRODIENST EPHEMERIS for the year 1964
geocentric

MAY 1964

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	14 35 48	10♈38'38	27♊12	4°R51	24♈25	25♊1	4♈29	3♊25	5°R59	16°R38	11°R43	3°R10	4♈57	12♊1	17♈39	F 1
S 2	14 39 44	11°36'51	9♋0	4♈15	25°10	25°46	4°44	3°29	5♊58	16♈36	11♊42	3°D10	4°54	12°7	17°41	S 2
S 3	14 43 41	12°35'01	20°55	3°41	25°54	26°31	4°58	3°33	5°58	16°35	11°41	3♋11	4°51	12°14	17°44	S 3
M 4	14 47 38	13°33'11	2♋59	3°11	26°36	27°17	5°12	3°37	5°57	16°33	11°41	3°12	4°47	12°21	17°46	M 4
T 5	14 51 34	14°31'18	15°19	2°44	27°18	28°2	5°27	3°41	5°57	16°31	11°40	3°R13	4°44	12°27	17°48	T 5
W 6	14 55 31	15°29'25	28°0	2°21	27°59	28°47	5°41	3°45	5°56	16°30	11°40	3°12	4°41	12°34	17°51	W 6
T 7	14 59 27	16°27'30	11♋5	2°2	28°39	29°32	5°55	3°48	5°56	16°28	11°39	3°9	4°38	12°40	17°53	T 7
F 8	15 3 24	17°25'33	24°39	1°48	29°18	0♈18	6°9	3°52	5°56	16°27	11°39	3°5	4°35	12°47	17°55	F 8
S 9	15 7 20	18°23'35	8♊40	1°38	29°55	1°3	6°24	3°56	5°55	16°25	11°38	2°59	4°31	12°54	17°58	S 9
S 10	15 11 17	19°21'36	23°9	1°32	0♈31	1°48	6°38	3°59	5°55	16°23	11°38	2°52	4°28	13°0	18°0	S 10
M 11	15 15 13	20°19'35	7♋59	1°D31	1°6	2°33	6°52	4°2	5°55	16°22	11°38	2°46	4°25	13°7	18°2	M 11
T 12	15 19 10	21°17'33	23°3	1°35	1°40	3°18	7°6	4°6	5°55	16°20	11°37	2°40	4°22	13°14	18°4	T 12
W 13	15 23 6	22°15'30	8♈11	1°44	2°12	4°2	7°20	4°9	5°D55	16°18	11°37	2°36	4°19	13°20	18°6	W 13
T 14	15 27 3	23°13'25	23°14	1°57	2°43	4°47	7°34	4°12	5°55	16°17	11°37	2°35	4°16	13°27	18°8	T 14
F 15	15 31 0	24°11'18	8♋4	2°14	3°12	5°32	7°48	4°15	5°55	16°15	11°36	2°D34	4°12	13°34	18°10	F 15
S 16	15 34 56	25°9'09	22°35	2°36	3°40	6°17	8°3	4°18	5°55	16°14	11°36	2°35	4°9	13°40	18°12	S 16
S 17	15 38 53	26°6'59	6♈43	3°3	4°6	7°1	8°17	4°21	5°55	16°12	11°36	2°37	4°6	13°47	18°14	S 17
M 18	15 42 49	27°4'47	20°28	3°33	4°30	7°46	8°31	4°24	5°55	16°10	11°36	2°38	4°3	13°54	18°16	M 18
T 19	15 46 46	28°2'33	3♊51	4°7	4°53	8°31	8°45	4°26	5°56	16°9	11°36	2°R38	4°0	14°0	18°18	T 19
W 20	15 50 42	29°0'18	16°53	4°46	5°14	9°15	8°58	4°29	5°56	16°7	11°36	2°36	3°57	14°7	18°19	W 20
T 21	15 54 39	29°58'00	29°38	5°28	5°33	10°0	9°12	4°31	5°56	16°6	11°35	2°33	3°53	14°14	18°21	T 21
F 22	15 58 36	0♈55'42	12♈9	6°14	5°50	10°44	9°26	4°34	5°57	16°4	11°35	2°29	3°50	14°20	18°23	F 22
S 23	16 2 32	1°53'21	24°26	7°3	6°6	11°28	9°40	4°36	5°57	16°2	11°D35	2°24	3°47	14°27	18°24	S 23
S 24	16 6 29	2°51'00	6♈34	7°56	6°19	12°13	9°54	4°38	5°58	16°1	11°35	2°19	3°44	14°34	18°26	S 24
M 25	16 10 25	3°48'37	18°34	8°53	6°30	12°57	10°8	4°40	5°58	15°59	11°35	2°15	3°41	14°40	18°27	M 25
T 26	16 14 22	4°46'12	0♈28	9°52	6°39	13°41	10°21	4°42	5°59	15°58	11°36	2°11	3°37	14°47	18°29	T 26
W 27	16 18 18	5°43'47	12°18	10°55	6°46	14°25	10°35	4°44	6°0	15°56	11°36	2°8	3°34	14°54	18°30	W 27
T 28	16 22 15	6°41'20	24°6	12°1	6°50	15°9	10°49	4°46	6°1	15°55	11°36	2°6	3°31	15°0	18°32	T 28
F 29	16 26 11	7°38'53	5♋54	13°10	6°R52	15°53	11°2	4°48	6°1	15°53	11°36	2°D6	3°28	15°7	18°33	F 29
S 30	16 30 8	8°36'24	17°46	14°21	6°52	16°37	11°16	4°49	6°2	15°52	11°36	2°7	3°25	15°14	18°34	S 30
S 31	16 34 5	9♈33'55	29♋44	15♈36	6♈50	17♈21	11♈29	4♈51	6♊3	15♈50	11♊36	2♈8	3♈22	15♊20	18♈35	S 31

Day	☉	☽		♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊	♋	♌	♍	♎	♏
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	15n 1	22s53	0n32	13n 9	0n 0	27n26	4n 7	9n 5	0s38	12n 5	1s 0	11s32	1s22	10n 3	0n47	15s 4	1n50	20n12	14n 9	23n24	23n21
S 2	15 19	23 40	0s31	12 40	0s17	27 28	4 7	9 22	0 38	12 9	1 0	11 30	1 22	10 3	0 47	15 3	1 50	20 12	14 8	23 24	23 21
S 3	15 37	23 22	1 34	12 13	0 34	27 30	4 8	9 39	0 37	12 14	1 0	11 29	1 22	10 3	0 47	15 3	1 50	20 12	14 8	23 24	23 21
M 4	15 55	21 59	2 34	11 47	0 51	27 32	4 8	9 56	0 37	12 19	1 0	11 28	1 22	10 4	0 47	15 2	1 50	20 12	14 8	23 24	23 21
T 5	16 12	19 33	3 28	11 23	1 7	27 33	4 8	10 13	0 36	12 24	1 0	11 27	1 23	10 4	0 47	15 2	1 50	20 12	14 7	23 24	23 22
W 6	16 29	16 7	4 13	11 0	1 22	27 33	4 7	10 29	0 36	12 29	1 0	11 25	1 23	10 4	0 47	15 1	1 50	20 12	14 7	23 24	23 22
T 7	16 46	11 49	4 47	10 40	1 37	27 33	4 7	10 46	0 35	12 33	1 0	11 24	1 23	10 4	0 47	15 1	1 50	20 11	14 7	23 24	23 22
F 8	17 2	6 48	5 6	10 22	1 51	27 33	4 6	11 2	0 35	12 38	1 0	11 23	1 23	10 4	0 47	15 0	1 50	20 11	14 6	23 24	23 22
S 9	17 18	1 16	5 8	10 6	2 4	27 32	4 5	11 18	0 34	12 43	1 0	11 22	1 23	10 4	0 47	15 0	1 50	20 11	14 6	23 25	23 22
S 10	17 34	4n30	4 50	9 52	2 17	27 30	4 4	11 35	0 33	12 47	1 0	11 21	1 24	10 4	0 47	14 59	1 50	20 11	14 6	23 25	23 22
M11	17 50	10 11	4 13	9 41	2 28	27 29	4 2	11 51	0 33	12 52	1 0	11 20	1 24	10 4	0 47	14 59	1 50	20 11	14 5	23 25	23 22
T 12	18 5	15 21	3 18	9 33	2 38	27 27	4 1	12 7	0 32	12 57	1 0	11 19	1 24	10 4	0 47	14 59	1 50	20 11	14 5	23 25	23 22
W13	18 20	19 34	2 9	9 27	2 48	27 24	3 58	12 22	0 32	13 1	1 0	11 18	1 24	10 4	0 47	14 58	1 50	20 10	14 5	23 25	23 22
T 14	18 35	22 26	0 51	9 24	2 56	27 21	3 56	12 38	0 31	13 6	1 0	11 17	1 24	10 4	0 47	14 58	1 50	20 10	14 4	23 25	23 23
F 15	18 49	23 42	0n30	9 23	3 4	27 18	3 54	12 53	0 30	13 10	1 0	11 16	1 25	10 4	0 47	14 57	1 50	20 10	14 4	23 25	23 23
S 16	19 3	23 19	1 47	9 24	3 10	27 14	3 51	13 9	0 30	13 15	1 0	11 15	1 25	10 4	0 47	14 57	1 50	20 10	14 4	23 25	23 23
S 17	19 17	21 26	2 55	9 28	3 16	27 10	3 47	13 24	0 29	13 19	1 0	11 14	1 25	10 4	0 47	14 56	1 50	20 10	14 3	23 25	23 23
M18	19 31	18 20	3 52	9 33	3 20	27 6	3 44	13 39	0 29	13 24	1 0	11 13	1 25	10 4	0 47	14 56	1 50	20 9	14 3	23 25	23 23
T 19	19 44	14 21	4 34	9 41	3 24	27 1	3 40	13 54	0 28	13 28	1 0	11 13	1 26	10 4	0 47	14 55	1 50	20 9	14 3	23 25	23 23
W20	19 56	9 47	5 1	9 52	3 27	26 56	3 36	14 9	0 27	13 33	1 0	11 12	1 26	10 4	0 47	14 55	1 50	20 9	14 2	23 25	23 23
T 21	20 9	4 55	5 12	10 4	3 29	26 50	3 31	14 23	0 27	13 37	1 0	11 11	1 26	10 3	0 47	14 54	1 50	20 8	14 2	23 25	23 23
F 22	20 21	0s 4	5 8	10 17	3 30	26 45	3 26	14 38	0 26	13 42	1 0	11 11	1 26	10 3	0 46	14 54	1 50	20 8	14 1	23 25	23 23
S 23	20 33	4 59	4 50	10 33	3 31	26 38	3 20	14 52	0 26	13 46	1 0	11 10	1 26	10 3	0 46	14 54	1 49	20 8	14 1	23 25	23 23
S 24	20 44	9 38	4 19	10 51	3 30	26 32	3 15	15 6	0 25	13 50	1 0	11 9	1 27	10 3	0 46	14 53	1 49	20 7	14 1	23 25	23 23
M25	20 55	13 53	3 36	11 9	3 29	26 25	3 8	15 20	0 24	13 55	1 0	11 9	1 27	10 2	0 46	14 53	1 49	20 7	14 0	23 25	23 24
T 26	21 6	17 34	2 45	11 30	3 27	26 18	3 2	15 34	0 24	13 59	1 0	11 8	1 27	10 2	0 46	14 52	1 49	20 7	14 0	23 26	23 24
W27	21 16	20 30	1 47	11 52	3 24	26 11	2 55	15 48	0 23	14 3	1 0	11 8	1 27	10 2	0 46	14 52	1 49	20 6	14 0	23 26	23 24
T 28	21 26	22 35	0 44	12 15	3 21	26 3	2 47	16 2	0 22	14 7	1 0	11 7	1 27	10 2	0 46	14 52	1 49	20 6	13 59	23 26	23 24
F 29	21 35	23 40	0s21	12 39	3 17	25 55	2 39	16 15	0 22	14 12	1 0	11 7	1 28	10 1	0 46	14 51	1 49	20 6	13 59	23 26	23 24
S 30	21 45	23 40	1 25	13 5	3 13	25 47	2 31	16 28	0 21	14 16	1 0	11 6	1 28	10 1	0 46	14 51	1 49	20 5	13 59	23 26	23 24
S 31	21n53	22s36	2s27	13n32	3s 7	25n38	2n22	16n41	0s21	14n20	1s 0	11s 6	1s28	10n 0	0n46	14s50	1n49	20n 5	13n58	23n26	23n24

Julian Day Number = 2438516.5, Delta T = 35.25 sec
Ecliptic obliquity = 23°26'37, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°14'31, Lahiri = 23°21'32

ASTRODIENST EPHEMERIS for the year 1964
geocentric

JUNE 1964

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 38 1	10♐31'24	11♏52	16♌54	6♋R45	18♏5	11♏43	4♎52	6♎4	15°R49	11♎37	2♏10	3♏18	15♎27	18♎36	M 1
T 2	16 41 58	11°28'53	24°14	18°14	6♏37	18°49	11°56	4°54	6°5	15♎48	11°37	2°11	3°15	15°33	18°37	T 2
W 3	16 45 54	12°26'21	6♎54	19°37	6°28	19°33	12°9	4°55	6°6	15°46	11°37	2°R12	3°12	15°40	18°38	W 3
T 4	16 49 51	13°23'48	19°56	21°3	6°16	20°16	12°23	4°56	6°7	15°45	11°38	2°12	3°9	15°47	18°39	T 4
F 5	16 53 47	14°21'15	3♎23	22°32	6°1	21°0	12°36	4°57	6°8	15°43	11°38	2°11	3°6	15°53	18°40	F 5
S 6	16 57 44	15°18'41	17°17	24°3	5°44	21°43	12°49	4°58	6°10	15°42	11°38	2°10	3°2	16°0	18°41	S 6
S 7	17 1 40	16°16'06	1♎37	25°37	5°25	22°27	13°2	4°59	6°11	15°41	11°39	2°8	2°59	16°7	18°42	S 7
M 8	17 5 37	17°13'31	16°21	27°14	5°4	23°10	13°15	5°0	6°12	15°39	11°39	2°6	2°56	16°13	18°43	M 8
T 9	17 9 34	18°10'55	1♐22	28°53	4°40	23°54	13°28	5°0	6°14	15°38	11°40	2°4	2°53	16°20	18°44	T 9
W10	17 13 30	19°8'18	16°33	0♐35	4°14	24°37	13°41	5°1	6°15	15°37	11°40	2°3	2°50	16°27	18°44	W10
T 11	17 17 27	20°5'41	1♏43	2°20	3°47	25°21	13°54	5°1	6°16	15°35	11°41	2°D 3	2°47	16°33	18°45	T 11
F 12	17 21 23	21°3'03	16°44	4°7	3°17	26°4	14°7	5°2	6°18	15°34	11°42	2°3	2°43	16°40	18°45	F 12
S 13	17 25 20	22°0'24	1♎28	5°57	2°46	26°47	14°20	5°2	6°20	15°33	11°42	2°4	2°40	16°47	18°46	S 13
S 14	17 29 16	22°57'44	15°49	7°49	2°13	27°30	14°33	5°2	6°21	15°32	11°43	2°5	2°37	16°53	18°46	S 14
M15	17 33 13	23°55'03	29°45	9°44	1°39	28°13	14°45	5°R 2	6°23	15°30	11°44	2°5	2°34	17°0	18°47	M15
T 16	17 37 9	24°52'21	13♎14	11°41	1°4	28°56	14°58	5°2	6°25	15°29	11°44	2°6	2°31	17°7	18°47	T 16
W17	17 41 6	25°49'39	26°19	13°40	0°28	29°39	15°11	5°2	6°26	15°28	11°45	2°R 6	2°28	17°13	18°47	W17
T 18	17 45 3	26°46'55	9♎2	15°42	29♐51	0♐22	15°23	5°2	6°28	15°27	11°46	2°6	2°24	17°20	18°47	T 18
F 19	17 48 59	27°44'11	21°27	17°45	29°14	1°5	15°35	5°2	6°30	15°26	11°47	2°6	2°21	17°27	18°48	F 19
S 20	17 52 56	28°41'26	3♎37	19°51	28°36	1°48	15°48	5°1	6°32	15°25	11°48	2°5	2°18	17°33	18°48	S 20
S 21	17 56 52	29°38'40	15°37	21°58	27°59	2°30	16°0	5°1	6°34	15°24	11°48	2°5	2°15	17°40	18°R48	S 21
M22	18 0 49	0♏35'54	27°30	24°6	27°21	3°13	16°12	5°0	6°36	15°23	11°49	2°5	2°12	17°47	18°48	M22
T 23	18 4 45	1°33'07	9♎20	26°15	26°44	3°55	16°24	4°59	6°38	15°22	11°50	2°4	2°8	17°53	18°48	T 23
W24	18 8 42	2°30'20	21°7	28°26	26°8	4°38	16°36	4°59	6°40	15°21	11°51	2°D 4	2°5	18°0	18°48	W24
T 25	18 12 38	3°27'32	2♎57	0♏37	25°33	5°20	16°48	4°58	6°42	15°20	11°52	2°R 5	2°2	18°6	18°47	T 25
F 26	18 16 35	4°24'44	14°50	2°48	24°59	6°3	17°0	4°57	6°44	15°19	11°53	2°4	1°59	18°13	18°47	F 26
S 27	18 20 32	5°21'56	26°48	4°59	24°26	6°45	17°12	4°55	6°46	15°18	11°54	2°4	1°56	18°20	18°47	S 27
S 28	18 24 28	6°19'08	8♎55	7°10	23°55	7°27	17°23	4°54	6°49	15°17	11°55	2°4	1°53	18°26	18°47	S 28
M29	18 28 25	7°16'19	21°12	9°21	23°25	8°10	17°35	4°53	6°51	15°16	11°56	2°3	1°49	18°33	18°46	M29
T 30	18 32 21	8♏13'31	3♎42	11♏30	22♐58	8♐52	17♎47	4♎52	6♎53	15♎15	11♎57	2♏3	1♏46	18♎40	18♎46	T 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	
M 1	22n 2	20s28 3s22 13n59	3s 1	25n29 2n13	16n54	0s20 14n24	1s 0	11s 6	1s28 10n 0	0n46 14s50	1n49 20n 4	13n58 23n26	23n24	21s 5	0s 8	4n45
T 2	22 10 17	22 4 10 14 27	2 55	25 19 2 3	17 7	0 19 14 28	1 0	11 5	1 28 10 0	0 46 14 50	1 49 20 4	13 57 23 26	23 24	21 6	0 7	4 45
W 3	22 17 13	24 4 46 14 57	2 48	25 10 1 53	17 19	0 19 14 32	1 0	11 5	1 29 9 59	0 46 14 49	1 49 20 3	13 57 23 26	23 24	21 8	0 7	4 46
T 4	22 25 8	43 5 9 15 26	2 41	25 0 1 42	17 32	0 18 14 36	1 0	11 5	1 29 9 59	0 46 14 49	1 49 20 3	13 57 23 26	23 24	21 9	0 6	4 46
F 5	22 32 3	29 5 16 15 57	2 33	24 49 1 31	17 44	0 17 14 40	1 0	11 5	1 29 9 58	0 46 14 48	1 49 20 2	13 56 23 26	23 24	21 11	0 6	4 46
S 6	22 38 2n 5	5 5 16 27	2 24	24 39 1 19	17 56	0 17 14 44	1 0	11 5	1 29 9 58	0 46 14 48	1 49 20 2	13 56 23 26	23 25	21 12	0 5	4 46
S 7	22 44 7	44 4 36 16 59	2 15	24 27 1 8	18 8	0 16 14 48	1 0	11 4	1 30 9 57	0 46 14 48	1 49 20 1	13 56 23 26	23 25	21 14	0 4	4 47
M 8	22 50 13	6 3 47 17 30	2 6	24 16 0 55	18 19	0 15 14 52	1 0	11 4	1 30 9 57	0 46 14 47	1 49 20 1	13 55 23 26	23 25	21 15	0 4	4 47
T 9	22 55 17	48 2 42 18 1	1 56	24 4 0 43	18 31	0 15 14 56	1 0	11 4	1 30 9 56	0 46 14 47	1 49 20 0	13 55 23 26	23 25	21 17	0 4	4 47
W10	23 0 21	21 1 25 18 33	1 46	23 52 0 30	18 42	0 14 14 59	1 0	11 4	1 30 9 56	0 46 14 47	1 49 20 0	13 55 23 26	23 25	21 18	0 3	4 47
T 11	23 4 23	24 0 2 19 4	1 36	23 40 0 16	18 53	0 13 15 3	1 0	11 4	1 30 9 55	0 46 14 46	1 49 19 59	13 54 23 26	23 25	21 20	0 3	4 47
F 12	23 8 23 44	1n21 19 34	1 25	23 27 0 3	19 4	0 13 15 7	1 0	11 4	1 31 9 55	0 46 14 46	1 49 19 59	13 54 23 26	23 25	21 21	0 2	4 48
S 13	23 12 22	22 2 36 20 5	1 15	23 14 0s11	19 15	0 12 15 11	1 0	11 5	1 31 9 54	0 46 14 46	1 49 19 58	13 53 23 26	23 25	21 23	0 2	4 48
S 14	23 15 19	36 3 40 20 34	1 4	23 0 0 25	19 25	0 11 15 14	1 1	11 5	1 31 9 53	0 46 14 45	1 49 19 57	13 53 23 26	23 25	21 24	0 1	4 48
M15	23 18 15	45 4 28 21 3	0 52	22 47 0 39	19 36	0 11 15 18	1 1	11 5	1 31 9 53	0 46 14 45	1 49 19 57	13 53 23 26	23 25	21 26	0 1	4 48
T 16	23 21 11	13 5 1 21 31	0 41	22 33 0 53	19 46	0 10 15 22	1 1	11 5	1 32 9 52	0 45 14 45	1 49 19 56	13 52 23 26	23 25	21 27	0 1	4 48
W17	23 23 6	18 5 16 21 57	0 30	22 19 1 8	19 56	0 9 15 25	1 1	11 5	1 32 9 51	0 45 14 44	1 49 19 56	13 52 23 26	23 25	21 29	0 1	4 49
T 18	23 24 1	15 5 15 22 22	0 19	22 5 1 22	20 5	0 9 15 29	1 1	11 6	1 32 9 51	0 45 14 44	1 49 19 55	13 52 23 26	23 25	21 30	0 0	4 49
F 19	23 25 3s44	5 0 22 45	0 7	21 51 1 36	20 15	0 8 15 32	1 1	11 6	1 32 9 50	0 45 14 44	1 49 19 54	13 51 23 26	23 25	21 32	0n 0	4 49
S 20	23 26 8	29 4 31 23 7	0n 4	21 36 1 50	20 24	0 7 15 36	1 1	11 6	1 32 9 49	0 45 14 44	1 49 19 54	13 51 23 26	23 25	21 33	0 0	4 49
S 21	23 27 12	51 3 51 23 26	0 14	21 22 2 3	20 34	0 7 15 39	1 1	11 7	1 33 9 48	0 45 14 43	1 49 19 53	13 51 23 26	23 25	21 35	0 0	4 50
M22	23 27 16	41 3 1 23 44	0 25	21 8 2 17	20 42	0 6 15 43	1 1	11 7	1 33 9 48	0 45 14 43	1 49 19 52	13 50 23 26	23 26	21 36	0 1	4 50
T 23	23 26 19	49 2 3 23 58	0 35	20 54 2 30	20 51	0 5 15 46	1 1	11 8	1 33 9 47	0 45 14 43	1 48 19 52	13 50 23 26	23 26	21 38	0 1	4 50
W24	23 25 22	8 1 1 24 11	0 45	20 40 2 43	21 0	0 4 15 50	1 1	11 8	1 33 9 46	0 45 14 43	1 48 19 51	13 50 23 26	23 26	21 39	0 1	4 50
T 25	23 24 23 29	0s 5 24 20	0 54	20 27 2 55	21 8	0 4 15 53	1 1	11 9	1 34 9 45	0 45 14 42	1 48 19 50	13 49 23 26	23 26	21 40	0 1	4 50
F 26	23 22 23 47	1 10 24 27	1 3	20 14 3 7	21 16	0 3 15 56	1 1	11 9	1 34 9 44	0 45 14 42	1 48 19 50	13 49 23 26	23 26	21 42	0 1	4 51
S 27	23 20 22	59 2 13 24 31	1 11	20 1 3 19	21 24	0 2 15 59	1 1	11 10	1 34 9 43	0 45 14 42	1 48 19 49	13 49 23 26	23 26	21 43	0 1	4 51
S 28	23 18 21	6 3 11 24 33	1 18	19 49 3 30	21 32	0 2 16 3	1 1	11 10	1 34 9 43	0 45 14 42	1 48 19 48	13 48 23 26	23 26	21 45	0 1	4 51
M29	23 15 18	14 4 0 24 31	1 25	19 37 3 40	21 39	0 1 16 6	1 1	11 11	1 34 9 42	0 45 14 41	1 48 19 48	13 48 23 26	23 26	21 46	0 1	4 51
T 30	23n11 14s29	4s39 24n27	1n31 19n26	3s50 21n47	0s 0 16n 9	1s 2 11s12 1s35	9n41 0n45	14s41 1n48	19n47 13n48	23n26 23n26	21s48 0n 1	4n51				

Julian Day Number = 2438547.5, Delta T = 35.31 sec
Ecliptic obliquity = 23°26'37", Nutation = - 0°00'18", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°14'36", Lahiri = 23°21'36"

ASTRODIENST EPHEMERIS for the year 1964
geocentric

JULY 1964

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	18 36 18	9 ⁵⁵ 10'43	16 ¹⁸ 28	13 ⁵⁹ 39	22 ² R32	9 ¹¹ 34	17 ⁸ 58	4 ² R50	6 ¹⁷ 56	15 ¹⁵ R14	11 ¹⁷ 59	2 ² R 2	1 ⁵⁵ 43	18 ¹⁷ 46	18 ¹⁸ R45	W 1
T 2	18 40 14	10 ⁰ 7'54	29 ³ 31	15 ⁴ 47	22 ¹¹ 9	10 ¹ 16	18 ⁰ 9	4 ¹⁸ 49	6 ⁵ 58	15 ¹⁵ M14	12 ⁰ 0	2 ⁵⁵ 1	1 ⁴⁰ 1	18 ¹⁸ 53	18 ¹⁸ 45	T 2
F 3	18 44 11	11 ⁰ 5'06	12 ¹⁷ 55	17 ⁵ 53	21 ⁴ 47	10 ¹ 58	18 ⁰ 21	4 ⁴ 47	7 ⁰ 0	15 ¹⁵ 13	12 ⁰ 1	2 ² D 1	1 ³⁷ 1	19 ⁰ 0	18 ¹⁸ 44	F 3
S 4	18 48 7	12 ⁰ 2'19	26 ⁴ 40	19 ⁵ 58	21 ² 28	11 ¹ 40	18 ⁰ 32	4 ⁴ 45	7 ⁰ 3	15 ¹⁵ 12	12 ⁰ 2	2 ⁰ 2	1 ³⁴ 1	19 ⁰ 6	18 ¹⁸ 44	S 4
S 5	18 52 4	12 ⁵ 59'31	10 ⁸ 48	22 ⁰ 1	21 ¹ 12	12 ² 22	18 ⁰ 43	4 ⁴ 43	7 ⁰ 6	15 ¹⁵ 11	12 ⁰ 3	2 ⁰ 2	1 ³⁰ 1	19 ⁰ 13	18 ¹⁸ 43	S 5
M 6	18 56 1	13 ⁵ 56'44	25 ⁰ 17	24 ⁰ 3	20 ⁵ 57	13 ⁰ 4	18 ⁰ 54	4 ⁴ 41	7 ⁰ 8	15 ¹⁵ 11	12 ⁰ 5	2 ⁰ 3	1 ²⁷ 1	19 ⁰ 20	18 ¹⁸ 42	M 6
T 7	18 59 57	14 ⁵ 53'57	10 ¹¹ 3	26 ⁰ 3	20 ⁴ 46	13 ⁰ 46	19 ⁰ 5	4 ⁴ 39	7 ⁰ 11	15 ¹⁵ 10	12 ⁰ 6	2 ⁰ 4	1 ²⁴ 1	19 ⁰ 26	18 ¹⁸ 41	T 7
W 8	19 3 54	15 ⁵ 51'11	25 ⁰ 1	28 ⁰ 1	20 ³ 36	14 ⁰ 27	19 ⁰ 16	4 ⁴ 37	7 ⁰ 13	15 ¹⁵ 9	12 ⁰ 7	2 ⁰ R 5	1 ²¹ 1	19 ⁰ 33	18 ¹⁸ 40	W 8
T 9	19 7 50	16 ⁴ 48'25	10 ¹² 4	29 ⁵ 57	20 ² 29	15 ⁰ 9	19 ⁰ 26	4 ⁴ 35	7 ⁰ 16	15 ¹⁵ 9	12 ⁰ 9	2 ⁰ 4	1 ¹⁸ 1	19 ⁰ 40	18 ¹⁸ 40	T 9
F 10	19 11 47	17 ⁴ 45'39	25 ⁰ 2	1 ¹² 51	20 ² 24	15 ⁰ 50	19 ⁰ 37	4 ⁴ 33	7 ⁰ 19	15 ¹⁵ 8	12 ⁰ 10	2 ⁰ 4	1 ¹⁴ 1	19 ⁰ 46	18 ¹⁸ 39	F 10
S 11	19 15 43	18 ⁴ 42'53	9 ¹² 49	3 ⁴ 44	20 ² 22	16 ⁰ 32	19 ⁰ 47	4 ⁴ 30	7 ⁰ 22	15 ¹⁵ 8	12 ⁰ 11	2 ⁰ 2	1 ¹¹ 1	19 ⁰ 53	18 ¹⁸ 38	S 11
S 12	19 19 40	19 ⁴ 40'07	24 ⁰ 15	5 ³ 34	20 ² D22	17 ⁰ 13	19 ⁰ 58	4 ⁴ 28	7 ⁰ 24	15 ¹⁵ 7	12 ⁰ 13	2 ⁰ 0	1 ⁰ 8	20 ⁰ 0	18 ¹⁸ 36	S 12
M13	19 23 37	20 ⁴ 37'21	8 ¹⁷ 18	7 ² 23	20 ² 24	17 ⁰ 55	20 ⁰ 8	4 ⁴ 25	7 ⁰ 27	15 ¹⁵ 7	12 ⁰ 14	1 ⁵ 58	1 ⁰ 5	20 ⁰ 6	18 ¹⁸ 35	M13
T 14	19 27 33	21 ⁴ 34'35	21 ⁵ 4	9 ¹⁰ 10	20 ² 28	18 ⁰ 36	20 ⁰ 18	4 ⁴ 23	7 ⁰ 30	15 ¹⁵ 6	12 ⁰ 16	1 ⁵ 55	1 ⁰ 2	20 ⁰ 13	18 ¹⁸ 34	T 14
W15	19 31 30	22 ⁴ 31'50	5 ¹¹ 4	10 ⁵ 54	20 ² 35	19 ⁰ 17	20 ⁰ 28	4 ⁴ 20	7 ⁰ 33	15 ¹⁵ 6	12 ⁰ 17	1 ⁵ 54	0 ⁵ 59	20 ⁰ 19	18 ¹⁸ 33	W15
T 16	19 35 26	23 ⁴ 29'04	17 ⁰ 49	12 ³ 37	20 ² 44	19 ⁰ 59	20 ⁰ 38	4 ⁴ 17	7 ⁰ 36	15 ¹⁵ 6	12 ⁰ 19	1 ⁵ D53	0 ⁵ 55	20 ⁰ 26	18 ¹⁸ 32	T 16
F 17	19 39 23	24 ⁴ 26'18	0 ¹² 14	14 ⁰ 18	20 ² 54	20 ⁰ 40	20 ⁰ 48	4 ⁴ 14	7 ⁰ 39	15 ¹⁵ 5	12 ⁰ 20	1 ⁵ 53	0 ⁵ 52	20 ⁰ 33	18 ¹⁸ 30	F 17
S 18	19 43 19	25 ⁴ 23'33	12 ⁰ 23	15 ⁵ 57	21 ⁰ 7	21 ⁰ 21	20 ⁰ 58	4 ⁴ 11	7 ⁰ 42	15 ¹⁵ 5	12 ⁰ 22	1 ⁵ 54	0 ⁵ 49	20 ⁰ 39	18 ¹⁸ 29	S 18
S 19	19 47 16	26 ⁴ 20'48	24 ⁰ 20	17 ⁰ 34	21 ⁰ 22	22 ⁰ 2	21 ⁰ 7	4 ⁴ 8	7 ⁰ 45	15 ¹⁵ 5	12 ⁰ 23	1 ⁵ 55	0 ⁵ 46	20 ⁰ 46	18 ¹⁸ 28	S 19
M20	19 51 12	27 ⁴ 18'03	6 ¹² 10	19 ⁰ 9	21 ⁰ 39	22 ⁰ 43	21 ⁰ 17	4 ⁴ 5	7 ⁰ 48	15 ¹⁵ 4	12 ⁰ 25	1 ⁵ 57	0 ⁵ 43	20 ⁰ 53	18 ¹⁸ 26	M20
T 21	19 55 9	28 ⁴ 15'18	17 ⁰ 58	20 ⁰ 43	21 ⁰ 58	23 ⁰ 24	21 ⁰ 26	4 ⁴ 2	7 ⁰ 51	15 ¹⁵ 4	12 ⁰ 26	1 ⁵ 58	0 ⁵ 40	20 ⁰ 59	18 ¹⁸ 25	T 21
W22	19 59 6	29 ⁴ 12'34	29 ⁰ 47	22 ⁰ 14	22 ⁰ 18	24 ⁰ 5	21 ⁰ 35	3 ⁵ 59	7 ⁰ 54	15 ¹⁵ 4	12 ⁰ 28	1 ⁵ R59	0 ⁵ 36	21 ⁰ 6	18 ¹⁸ 23	W22
T 23	20 3 2	0 ¹² 9'50	11 ¹³ 40	23 ⁰ 44	22 ⁰ 41	24 ⁰ 45	21 ⁰ 44	3 ⁵ 56	7 ⁰ 57	15 ¹⁵ 4	12 ⁰ 30	1 ⁵ 59	0 ⁵ 33	21 ⁰ 13	18 ¹⁸ 22	T 23
F 24	20 6 59	1 ⁰ 7'07	23 ⁰ 41	25 ⁰ 11	23 ⁰ 4	25 ⁰ 26	21 ⁰ 53	3 ⁵ 52	8 ⁰ 0	15 ¹⁵ 4	12 ⁰ 31	1 ⁵ 57	0 ⁵ 30	21 ⁰ 19	18 ¹⁸ 20	F 24
S 25	20 10 55	2 ⁰ 4'24	5 ¹³ 51	26 ⁰ 36	23 ⁰ 30	26 ⁰ 7	22 ⁰ 2	3 ⁵ 49	8 ⁰ 4	15 ¹⁵ 4	12 ⁰ 33	1 ⁵ 54	0 ⁵ 27	21 ⁰ 26	18 ¹⁸ 18	S 25
S 26	20 14 52	3 ⁰ 1'42	18 ⁰ 12	28 ⁰ 0	23 ⁰ 57	26 ⁰ 47	22 ⁰ 11	3 ⁵ 45	8 ⁰ 7	15 ¹⁵ 4	12 ⁰ 35	1 ⁵ 49	0 ⁵ 24	21 ⁰ 33	18 ¹⁸ 17	S 26
M27	20 18 48	3 ⁵ 59'01	0 ¹³ 44	29 ⁰ 21	24 ⁰ 26	27 ⁰ 28	22 ⁰ 20	3 ⁵ 42	8 ⁰ 10	15 ¹⁵ D 4	12 ⁰ 36	1 ⁵ 44	0 ⁵ 20	21 ⁰ 39	18 ¹⁸ 15	M27
T 28	20 22 45	4 ⁵ 56'20	13 ⁰ 30	0 ¹⁴ 41	24 ⁰ 56	28 ⁰ 8	22 ⁰ 28	3 ⁵ 38	8 ⁰ 13	15 ¹⁵ 4	12 ⁰ 38	1 ⁵ 39	0 ⁵ 17	21 ⁰ 46	18 ¹⁸ 13	T 28
W29	20 26 41	5 ⁵ 53'41	26 ⁰ 29	1 ⁵ 58	25 ⁰ 28	28 ⁰ 49	22 ⁰ 36	3 ⁵ 34	8 ⁰ 17	15 ¹⁵ 4	12 ⁰ 40	1 ⁵ 34	0 ⁵ 14	21 ⁰ 53	18 ¹⁸ 11	W29
T 30	20 30 38	6 ⁵ 51'02	9 ¹⁴ 42	3 ⁰ 13	26 ⁰ 1	29 ⁰ 29	22 ⁰ 45	3 ⁵ 31	8 ⁰ 20	15 ¹⁵ 4	12 ⁰ 42	1 ⁵ 30	0 ⁵ 11	21 ⁰ 59	18 ¹⁸ 9	T 30
F 31	20 34 35	7 ⁵ 48'24	23 ⁰ 10	4 ¹⁴ 26	26 ⁰ 11	0 ¹⁵ 9	22 ⁰ 53	3 ⁵ 27	8 ⁰ 23	15 ¹⁵ M 4	12 ⁰ 44	1 ⁵ 27	0 ⁵ 8	22 ⁰ 7 6	18 ¹⁸ 7	F 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	23n 8	10s 2	5s 6	24n20	1n36	19n15	3s59	21n54	0n 0	16n12	1s 2	11s13	1s35	9n40	0n45	14s41	1n48	19n46	13n47	23n26	23n26	21s49	0n 1	4n52
T 2	23 3	5 2	5 17	24 10	1 40	19 5	4 8	22 1	0 1	16 15	1 2	11 13	1 35	9 39	0 45	14 41	1 48	19 45	13 47	23 26	23 26	21 50	0 1	4 52
F 3	22 59	0n19	5 12	23 58	1 44	18 56	4 16	22 7	0 2	16 18	1 2	11 14	1 35	9 38	0 45	14 41	1 48	19 45	13 47	23 26	23 26	21 52	0 1	4 52
S 4	22 54	5 48	4 49	23 43	1 47	18 47	4 24	22 14	0 3	16 21	1 2	11 15	1 35	9 37	0 45	14 41	1 48	19 44	13 46	23 26	23 26	21 53	0 1	4 52
S 5	22 49	11 9	4 8	23 26	1 49	18 39	4 31	22 20	0 3	16 24	1 2	11 16	1 36	9 36	0 45	14 40	1 48	19 43	13 46	23 26	23 26	21 55	0 1	4 52
M 6	22 43	16 0	3 10	23 7	1 51	18 31	4 37	22 26	0 4	16 27	1 2	11 17	1 36	9 35	0 45	14 40	1 48	19 42	13 46	23 26	23 26	21 56	0 1	4 53
T 7	22 37	20 0	1 59	22 46	1 52	18 25	4 43	22 32	0 5	16 30	1 2	11 18	1 36	9 34	0 45	14 40	1 48	19 42	13 46	23 26	23 26	21 57	0 1	4 53
W 8	22 30	22 42	0 39	22 23	1 52	18 19	4 49	22 38	0 5	16 33	1 2	11 19	1 36	9 33	0 45	14 40	1 48	19 41	13 45	23 26	23 26	21 59	0 1	4 53
T 9	22 23	23 48	0n44	21 58	1 51	18 13	4 53	22 43	0 6	16 36	1 2	11 20	1 36	9 32	0 45	14 40	1 48	19 40	13 45	23 26	23 26	22 0	0 1	4 53
F 10	22 16	23 9	2 4	21 32	1 50	18 9	4 58	22 48	0 7	16 38	1 2	11 21	1 37	9 31	0 45	14 40	1 48	19 39	13 45	23 26	23 26	22 2	0 0	4 53
S 11	22 8	20 54	3 14	21 4	1 48	18 5	5 2	22 53	0 8	16 41	1 2	11 22	1 37	9 30	0 45	14 40	1 48	19 38	13 44	23 26	23 26	22 3	0 0	4 54
S 12	22 0	17 22	4 10	20 35	1 46	18 1	5 5	22 58	0 8	16 44	1 3	11 23	1 37	9 29	0 45	14 40	1 48	19 38	13 44	23 26	23 26	22 4	0s 0	4 54
M13	21 52	12 56	4 49	20 5	1 42	17 59	5 8	23 3	0 9	16 46	1 3	11 24	1 37	9 28	0 45	14 40	1 47	19 37	13 44	23 26	23 26	22 6	0 0	4 54
T 14	21 43	7 58	5 11	19 33	1 39	17 57	5 10	23 7	0 10	16 49	1 3	11 25	1 37	9 27	0 45	14 39	1 47	19 36	13 44	23 26	23 26	22 7	0 1	4 54
W15	21 34	2 49	5 15	19 1	1 35	17 55	5 12	23 11	0 10	16 52	1 3	11 26	1 38	9 26	0 45	14 39	1 47	19 35	13 43	23 26	23 26	22 8	0 1	4 54
T 16	21 24	2s19	5 4	18 28	1 30	17 54	5 14	23 15	0 11	16 54	1 3	11 27	1 38	9 25	0 44	14 39	1 47	19 34	13 43	23 26	23 26	22 10	0 1	4 54
F 17	21 14	7 13	4 38	17 54	1 25	17 53	5 15	23 19	0 12	16 57	1 3	11 29	1 38	9 23	0 44	14 39	1 47	19 34	13 43	23 26	23 26	22 11	0 2	4 55
S 18	21 4	11 44	4 0	17 19	1 19	17 53	5 16	23 22	0 13	16 59	1 3	11 30	1 38	9 22	0 44	14 39	1 47	19 33	13 43	23 26	23 26	22 12	0 2	4 55
S 19	20 53	15 45	3 13	16 44	1 13	17 54	5 17	23 26	0 13	17 1	1 3	11 31	1 38	9 21	0 44	14 39	1 47	19 32	13 42	23 26	23 26	22 14	0 2	4 55
M20	20 42	19 5	2 17	16 8	1 6	17 55	5 17	23 29	0 14	17 4	1 3	11 33	1 39	9 20	0 44	14 39	1 47	19 31	13 42	23 26	23 27	22 15	0 3	4 55
T 21	20 31	21 38	1 16	15 32	0 59	17 56	5 17	23 31	0 15	17 6	1 4	11 34	1 39	9 19	0 44	14 39	1 47	19 30	13 42	23 26	23 27	22 16	0 3	4 55
W22	20 19	23 14	0 12	14 55	0 52	17 58	5 16	23 34	0 15	17 8	1 4	11 35	1 39	9 18	0 44	14 39	1 47	19 29	13 42	23 26	23 27	22 18	0 4	4 55
T 23	20 7	23 49	0s53	14 18	0 44	18 0	5 15	23 37	0 16	17 11	1 4	11 37	1 39	9 16	0 44	14 39	1 47	19 29	13 41	23 26	23 27	22 19	0 4	4 56
F 24	19 55	23 17	1 56	13 41	0 36	18 2	5 14	23 39	0 17	17 13	1 4	11 38	1 39	9 15	0 44	14 39	1 47	19 28	13 41	23 26	23 27	22 20	0 5	4 56
S 25	19 42	21 38	2 55	13 5	0 27	18 4	5 13	23 41	0 18	17 15	1 4	11 39	1 39	9 14	0 44	14 39	1 47	19 27	13 41	23 26	23 27	22 22	0 5	4 56
S 26	19 29	18 58	3 46	12 28	0 18	18 7	5 12	23 43	0 18	17 17	1 4	11 41	1 40	9 13	0 44	14 39	1 47	19 26	13 41	23 26	23 27	22 23	0 6	4 56
M27	19 16	15 23	4 28	11 51	0 9	18 10	5 10	23 44	0 19	17 19	1 4	11 42	1 40	9 12	0 44	14 39	1 47	19 25	13 41	23 26	23 27	22 24	0 6	4 56
T 28	19 2	11 3	4 56	11 14	0s 0	18 13	5 8	23 46	0 20	17 21	1 4	11 44	1 40	9 10	0 44	14 39	1 47	19 24	13 40	23 26	23 27	22 25	0 7	4 56
W29	18 48	6 9	5 10	10 37	0 10	18 17	5 6	23 47	0 21	17 23	1 4	11 45	1 40	9 9	0 44	14 40	1 47	19 23	13 40	23 26	23 27	22 27	0 7	4 56
T 30	18 34	0 53	5 8	10 1	0 20	18 20	5 3	23 48	0 21	17 25	1 5	11 47	1 40	9 8	0 44	14 40	1 46	19 23	13 40	23 26	23 27	22 28	0 8	4 57
F 31	18n19	4n31	4s50	9n25	0s30	18n24	5s 1	23n49	0n22	17n27	1s 5	11s48	1s40	9n 7	0n44	14s40	1n46	19n22	13n40	23n26	23n27	22s29	0s 9	4n57

ASTRODIENST EPHEMERIS for the year 1964

geocentric

AUGUST 1964

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 31	8♂45'48	6♂53	5♂37	27♂11	0♂50	23♂1	3°R23	8♂27	15♂4	12♂45	1°D27	0♂5	22♂12	18°R 5	S 1
S 2	20 42 28	9°43'13	20°52	6°45	27°48	1°30	23° 8	3♂19	8°30	15° 4	12°47	1♂27	0° 1	22°19	18♂ 3	S 2
M 3	20 46 24	10°40'39	5♂5	7°51	28°26	2°10	23°16	3°15	8°34	15° 4	12°49	1°28	29♂58	22°26	18° 1	M 3
T 4	20 50 21	11°38'06	19°32	8°54	29° 5	2°50	23°24	3°11	8°37	15° 5	12°51	1°29	29°55	22°32	17°59	T 4
W 5	20 54 17	12°35'35	4♂9	9°54	29°45	3°30	23°31	3° 7	8°40	15° 5	12°53	1°R30	29°52	22°39	17°57	W 5
T 6	20 58 14	13°33'05	18°51	10°52	0♂26	4°10	23°38	3° 3	8°44	15° 5	12°55	1°29	29°49	22°46	17°55	T 6
F 7	21 2 10	14°30'35	3♂33	11°47	1° 8	4°50	23°45	2°59	8°47	15° 5	12°57	1°26	29°46	22°52	17°53	F 7
S 8	21 6 7	15°28'07	18° 8	12°39	1°52	5°30	23°52	2°54	8°51	15° 6	12°58	1°20	29°42	22°59	17°50	S 8
S 9	21 10 4	16°25'40	2♂28	13°27	2°36	6° 9	23°59	2°50	8°55	15° 6	13° 0	1°14	29°39	23° 6	17°48	S 9
M10	21 14 0	17°23'14	16°28	14°13	3°21	6°49	24° 6	2°46	8°58	15° 7	13° 2	1° 7	29°36	23°12	17°46	M10
T 11	21 17 57	18°20'49	0♂5	14°55	4° 7	7°29	24°12	2°42	9° 2	15° 7	13° 4	0°59	29°33	23°19	17°44	T 11
W12	21 21 53	19°18'25	13°16	15°33	4°53	8° 8	24°18	2°37	9° 5	15° 8	13° 6	0°53	29°30	23°26	17°41	W12
T 13	21 25 50	20°16'02	26° 4	16° 7	5°41	8°48	24°25	2°33	9° 9	15° 8	13° 8	0°48	29°26	23°32	17°39	T 13
F 14	21 29 46	21°13'39	8♂30	16°37	6°29	9°27	24°31	2°29	9°12	15° 9	13°10	0°46	29°23	23°39	17°36	F 14
S 15	21 33 43	22°11'18	20°40	17° 2	7°18	10° 6	24°36	2°24	9°16	15° 9	13°12	0°D45	29°20	23°45	17°34	S 15
S 16	21 37 39	23° 8'58	2♂36	17°23	8° 8	10°46	24°42	2°20	9°20	15°10	13°14	0°45	29°17	23°52	17°32	S 16
M17	21 41 36	24° 6'39	14°26	17°40	8°59	11°25	24°47	2°15	9°23	15°11	13°16	0°46	29°14	23°59	17°29	M17
T 18	21 45 33	25° 4'21	26°14	17°51	9°50	12° 4	24°53	2°11	9°27	15°11	13°18	0°R47	29°11	24° 5	17°27	T 18
W19	21 49 29	26° 2'04	8♂5	17°57	10°41	12°43	24°58	2° 6	9°31	15°12	13°20	0°47	29° 7	24°12	17°24	W19
T 20	21 53 26	26°59'48	20° 4	17°R57	11°34	13°22	25° 3	2° 2	9°34	15°13	13°22	0°45	29° 4	24°19	17°21	T 20
F 21	21 57 22	27°57'33	2♂13	17°52	12°27	14° 1	25° 8	1°57	9°38	15°13	13°24	0°41	29° 1	24°25	17°19	F 21
S 22	22 1 19	28°55'20	14°36	17°41	13°21	14°40	25°12	1°53	9°42	15°14	13°26	0°34	28°58	24°32	17°16	S 22
S 23	22 5 15	29°53'08	27°13	17°25	14°15	15°18	25°17	1°48	9°46	15°15	13°28	0°25	28°55	24°39	17°14	S 23
M24	22 9 12	0♂50'57	10♂6	17° 2	15°10	15°57	25°21	1°44	9°49	15°16	13°31	0°15	28°52	24°45	17°11	M24
T 25	22 13 8	1°48'48	23°13	16°34	16° 5	16°36	25°25	1°39	9°53	15°17	13°33	0° 5	28°48	24°52	17° 8	T 25
W26	22 17 5	2°46'41	6♂33	16° 0	17° 1	17°14	25°29	1°35	9°57	15°18	13°35	29♂55	28°45	24°59	17° 6	W26
T 27	22 21 1	3°44'35	20° 5	15°20	17°57	17°53	25°33	1°30	10° 1	15°19	13°37	29°47	28°42	25° 5	17° 3	T 27
F 28	22 24 58	4°42'31	3♂47	14°36	18°54	18°31	25°36	1°26	10° 4	15°20	13°39	29°40	28°39	25°12	17° 0	F 28
S 29	22 28 55	5°40'29	17°38	13°47	19°51	19°10	25°40	1°21	10° 8	15°21	13°41	29°37	28°36	25°18	16°57	S 29
S 30	22 32 51	6°38'29	1♂36	12°55	20°49	19°48	25°43	1°17	10°12	15°22	13°43	29°D36	28°32	25°25	16°55	S 30
M31	22 36 48	7♂36'30	15♂41	12♂0	21♂47	20♂26	25♂46	1♂12	10♂16	15♂23	13♂45	29♂36	28♂29	25♂32	16♂52	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	18n 4	9n49	4s14	8n50	0s41	18n27	4s58	23n49	0n23	17n29	1 s 5	11s50	1 s41	9n 5	0n44	14s40	1n46	19n21	13n40	23n26	23n27	22s31	0 s 9	4n57	
S 2	17 49	14 42	3 23	8 15	0 51	18 31	4 55	23 50	0 24	17 31	1 5	11 51	1 41	9 4	0 44	14 40	1 46	19 20	13 40	23 26	23 27	22 32	0 10	4 57	
M 3	17 34	18 53	2 19	7 40	1 2	18 34	4 52	23 50	0 24	17 33	1 5	11 53	1 41	9 3	0 44	14 40	1 46	19 19	13 39	23 26	23 27	22 33	0 11	4 57	
T 4	17 18	21 57	1 5	7 7	1 13	18 38	4 48	23 50	0 25	17 34	1 5	11 55	1 41	9 1	0 44	14 40	1 46	19 18	13 39	23 26	23 27	22 34	0 11	4 57	
W 5	17 2	23 37	0n14	6 34	1 24	18 42	4 45	23 50	0 26	17 36	1 5	11 56	1 41	9 0	0 44	14 40	1 46	19 17	13 39	23 26	23 27	22 36	0 12	4 57	
T 6	16 46	23 39	1 33	6 1	1 35	18 45	4 41	23 49	0 26	17 38	1 5	11 58	1 41	8 59	0 44	14 40	1 46	19 17	13 39	23 26	23 27	22 37	0 13	4 57	
F 7	16 29	22 2	2 45	5 30	1 47	18 49	4 38	23 49	0 27	17 39	1 6	11 59	1 41	8 57	0 44	14 41	1 46	19 16	13 39	23 26	23 27	22 38	0 13	4 58	
S 8	16 12	18 58	3 46	5 0	1 58	18 52	4 34	23 48	0 28	17 41	1 6	12 1	1 41	8 56	0 44	14 41	1 46	19 15	13 39	23 26	23 27	22 39	0 14	4 58	
S 9	15 55	14 48	4 31	4 31	2 9	18 55	4 30	23 47	0 29	17 42	1 6	12 3	1 42	8 55	0 44	14 41	1 46	19 14	13 39	23 26	23 27	22 41	0 15	4 58	
M10	15 38	9 55	4 58	4 3	2 21	18 58	4 26	23 46	0 29	17 44	1 6	12 4	1 42	8 53	0 44	14 41	1 46	19 13	13 38	23 26	23 27	22 42	0 16	4 58	
T 11	15 20	4 41	5 8	3 36	2 32	19 1	4 22	23 44	0 30	17 45	1 6	12 6	1 42	8 52	0 44	14 41	1 46	19 12	13 38	23 26	23 27	22 43	0 17	4 58	
W12	15 2	0s37	5 1	3 11	2 43	19 4	4 18	23 43	0 31	17 47	1 6	12 8	1 42	8 51	0 44	14 41	1 46	19 11	13 38	23 26	23 27	22 44	0 18	4 58	
T 13	14 44	5 44	4 39	2 48	2 55	19 6	4 13	23 41	0 32	17 48	1 6	12 9	1 42	8 49	0 44	14 42	1 46	19 10	13 38	23 26	23 27	22 45	0 18	4 58	
F 14	14 26	10 29	4 4	2 26	3 6	19 8	4 9	23 39	0 32	17 50	1 7	12 11	1 42	8 48	0 44	14 42	1 46	19 10	13 38	23 27	23 27	22 47	0 19	4 58	
S 15	14 7	14 43	3 19	2 6	3 16	19 10	4 5	23 37	0 33	17 51	1 7	12 13	1 42	8 46	0 44	14 42	1 46	19 9	13 38	23 27	23 27	22 48	0 20	4 58	
S 16	13 48	18 18	2 26	1 48	3 27	19 12	4 0	23 34	0 34	17 52	1 7	12 14	1 42	8 45	0 44	14 42	1 45	19 8	13 38	23 27	23 27	22 49	0 21	4 58	
M17	13 29	21 6	1 27	1 33	3 37	19 14	3 55	23 32	0 35	17 53	1 7	12 16	1 43	8 44	0 44	14 43	1 45	19 7	13 38	23 27	23 27	22 50	0 22	4 58	
T 18	13 10	22 59	0 24	1 19	3 47	19 15	3 51	23 29	0 35	17 54	1 7	12 18	1 43	8 42	0 44	14 43	1 45	19 6	13 38	23 26	23 26	22 51	0 23	4 58	
W19	12 51	23 51	0s39	1 9	3 56	19 16	3 46	23 26	0 36	17 55	1 7	12 20	1 43	8 41	0 44	14 43	1 45	19 5	13 38	23 27	23 26	22 52	0 24	4 58	
T 20	12 31	23 37	1 42	1 1	4 4	19 16	3 41	23 23	0 37	17 56	1 7	12 21	1 43	8 40	0 44	14 43	1 45	19 4	13 38	23 27	23 26	22 54	0 25	4 58	
F 21	12 11	22 16	2 40	0 56	4 12	19 16	3 36	23 20	0 38	17 57	1 8	12 23	1 43	8 38	0 44	14 44	1 45	19 4	13 38	23 27	23 26	22 55	0 26	4 58	
S 22	11 51	19 50	3 32	0 54	4 19	19 16	3 31	23 16	0 38	17 58	1 8	12 25	1 43	8 37	0 44	14 44	1 45	19 3	13 37	23 27	23 26	22 56	0 27	4 59	
S 23	11 31	16 26	4 15	0 55	4 24	19 16	3 26	23 13	0 39	17 59	1 8	12 26	1 43	8 35	0 44	14 44	1 45	19 2	13 37	23 27	23 26	22 57	0 28	4 59	
M24	11 10	12 11	4 45	0 59	4 29	19 15	3 21	23 9	0 40	18 0	1 8	12 28	1 43	8 34	0 44	14 45	1 45	19 1	13 37	23 27	23 26	22 58	0 29	4 59	
T 25	10 50	7 18	5 2	1 7	4 32	19 14	3 16	23 5	0 41	18 1	1 8	12 30	1 43	8 32	0 44	14 45	1 45	19 0	13 37	23 27	23 26	22 59	0 30	4 59	
W26	10 29	2 1	5 2	1 19	4 34	19 12	3 11	23 1	0 42	18 2	1 8	12 31	1 43	8 31	0 44	14 45	1 45	18 59	13 37	23 27	23 26	23 1	0 31	4 59	
T 27	10 8	3n27	4 45	1 33	4 35	19 10	3 6	22 57	0 42	18 3	1 8	12 33	1 43	8 30	0 44	14 46	1 45	18 59	13 37	23 27	23 26	23 2	0 32	4 59	
F 28	9 47	8 50	4 12	1 52	4 33	19 8	3 1	22 52	0 43	18 3	1 9	12 35	1 43	8 28	0 44	14 46	1 45	18 58	13 37	23 27	23 26	23 3	0 33	4 59	
S 29	9 26	13 50	3 24	2 13	4 30	19 5	2 56	22 48	0 44	18 4	1 9	12 36	1 43	8 27	0 44	14 46	1 45	18 57	13 37	23 27	23 26	23 4	0 34	4 59	
S 30	9 5	18 9	2 23	2 38	4 25	19 1	2 50	22 43	0 45	18 5	1 9	12 38	1 43	8 25	0 44	14 47	1 45	18 56	13 37	23 27	23 26	23 5	0 35	4 59	
M31	8n43	21n27	1s13	3n 5	4s18	18n58	2s45	22n38	0n45	18n 5	1 s 9	12s40	1s44	8n24	0n44	14s47	1n45	18n55	13n37	23n27	23n26	23s 6	0s36	4n59	

ASTRODIENST EPHEMERIS for the year 1964
geocentric

SEPTEMBER 1964

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 40 44	8 ^h 34'34"	29 ^h 52'	11°R 4	22 ^h 46'	21 ^h 5	25 ^h 8'49"	1°R 8	10 ^h 19'	15 ^h 24'	13 ^h 47'	29°R36	28 ^h 26'	25 ^h 38'	16°R49	T 1
W 2	22 44 41	9°32'40"	14 ^h 8'	10 ^h 6'	23°45'	21°43'	25°51'	1 ^h 3	10°23'	15°25'	13°49'	29 ^h 35'	28°23'	25°45'	16 ^h 46'	W 2
T 3	22 48 37	10°30'48"	28°27'	9°10'	24°44'	22°21'	25°54'	0°59'	10°27'	15°26'	13°52'	29°33'	28°20'	25°52'	16°44'	T 3
F 4	22 52 34	11°28'57"	12 ^h 44'	8°15'	25°44'	22°59'	25°56'	0°54'	10°31'	15°28'	13°54'	29°27'	28°17'	25°58'	16°41'	F 4
S 5	22 56 30	12°27'08"	26°56'	7°23'	26°45'	23°37'	25°58'	0°50'	10°34'	15°29'	13°56'	29°19'	28°13'	26°5	16°38'	S 5
S 6	23 0 27	13°25'21"	10 ^h 58'	6°36'	27°45'	24°15'	26°0	0°45'	10°38'	15°30'	13°58'	29°8	28°10'	26°12'	16°35'	S 6
M 7	23 4 24	14°23'36"	24°44'	5°54'	28°46'	24°52'	26°2	0°41'	10°42'	15°31'	14°0	28°57'	28°7	26°18'	16°33'	M 7
T 8	23 8 20	15°21'53"	8 ^h 11'	5°19'	29°47'	25°30'	26°3	0°37'	10°46'	15°33'	14°2	28°45'	28°4	26°25'	16°30'	T 8
W 9	23 12 17	16°20'11"	21°18'	4°51'	0 ^h 49'	26°8	26°4	0°32'	10°50'	15°34'	14°4	28°34'	28°1	26°32'	16°27'	W 9
T 10	23 16 13	17°18'31"	4 ^h 2	4°31'	1°51'	26°45'	26°5	0°28'	10°53'	15°35'	14°6	28°25'	27°58'	26°38'	16°24'	T 10
F 11	23 20 10	18°16'52"	16°27'	4°20'	2°53'	27°23'	26°6	0°24'	10°57'	15°37'	14°9	28°19'	27°54'	26°45'	16°21'	F 11
S 12	23 24 6	19°15'15"	28°36'	4°D18	3°56'	28°0	26°7	0°20'	11°1	15°38'	14°11'	28°16'	27°51'	26°52'	16°19'	S 12
S 13	23 28 3	20°13'40"	10 ^h 33'	4°25'	4°59'	28°37'	26°7	0°16'	11°5	15°39'	14°13'	28°14'	27°48'	26°58'	16°16'	S 13
M14	23 31 59	21°12'06"	22°23'	4°41'	6°2	29°15'	26°8	0°12'	11°8	15°41'	14°15'	28°14'	27°45'	27°5	16°13'	M14
T 15	23 35 56	22°10'34"	4 ^h 11'	5°7	7°6	29°52'	26°R 8	0°7	11°12'	15°42'	14°17'	28°14'	27°42'	27°11'	16°10'	T 15
W16	23 39 53	23°9'04"	16°3	5°41'	8°10'	0 ^h 29'	26°8	0°3	11°16'	15°44'	14°19'	28°13'	27°38'	27°18'	16°7	W16
T 17	23 43 49	24°7'35"	28°5	6°24'	9°14'	1°6	26°7	29°59'	11°19'	15°45'	14°21'	28°10'	27°35'	27°25'	16°5	T 17
F 18	23 47 46	25°6'08"	10 ^h 20'	7°15'	10°18'	1°43'	26°7	29°56'	11°23'	15°47'	14°23'	28°5	27°32'	27°31'	16°2	F 18
S 19	23 51 42	26°4'43"	22°53'	8°14'	11°23'	2°20'	26°6	29°52'	11°27'	15°49'	14°25'	27°57'	27°29'	27°38'	15°59'	S 19
S 20	23 55 39	27°3'19"	5 ^h 44'	9°20'	12°27'	2°56'	26°5	29°48'	11°30'	15°50'	14°27'	27°47'	27°26'	27°45'	15°56'	S 20
M21	23 59 35	28°1'57"	18°56'	10°33'	13°33'	3°33'	26°4	29°44'	11°34'	15°52'	14°30'	27°35'	27°23'	27°51'	15°54'	M21
T 22	0 3 32	29°0'37"	2 ^h 25'	11°52'	14°38'	4°10'	26°3	29°41'	11°38'	15°53'	14°32'	27°22'	27°19'	27°58'	15°51'	T 22
W23	0 7 28	29°59'19"	16°11'	13°16'	15°44'	4°46'	26°1	29°37'	11°41'	15°55'	14°34'	27°10'	27°16'	28°5	15°48'	W23
T 24	0 11 25	0 ^h 58'03"	0 ^h 8'	14°44'	16°49'	5°22'	25°59'	29°33'	11°45'	15°57'	14°36'	27°0	27°13'	28°11'	15°46'	T 24
F 25	0 15 22	1°56'50"	14°13'	16°17'	17°56'	5°59'	25°57'	29°30'	11°49'	15°59'	14°38'	26°52'	27°10'	28°18'	15°43'	F 25
S 26	0 19 18	2°55'38"	28°22'	17°53'	19°2	6°35'	25°55'	29°27'	11°52'	16°0	14°40'	26°47'	27°7	28°25'	15°40'	S 26
S 27	0 23 15	3°54'29"	12 ^h 32'	19°31'	20°8	7°11'	25°53'	29°23'	11°56'	16°2	14°42'	26°45'	27°3	28°31'	15°38'	S 27
M28	0 27 11	4°53'22"	26°40'	21°12'	21°15'	7°47'	25°50'	29°20'	11°59'	16°4	14°44'	26°45'	27°0	28°38'	15°35'	M28
T 29	0 31 8	5°52'18"	10 ^h 46'	22°56'	22°22'	8°23'	25°48'	29°17'	12°3	16°6	14°46'	26°45'	26°57'	28°44'	15°33'	T 29
W30	0 35 4	6 ^h 51'16"	24 ^h 49'	24 ^h 40'	23 ^h 29'	8 ^h 59'	25 ^h 45'	29°14'	12 ^h 6'	16 ^h 7'	14 ^h 48'	26 ^h 44'	26 ^h 54'	28°51'	15°30'	W30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	8n21	23n28	0n 1	3n35	4s 9	18n53	2s40	22n33	0n46	18n 6	1s 9	12s41	1s44	8n23	0n44	14s47
W 2	8 0	23 58	1 17	4 6	3 58	18 49	2 35	22 28	0 47	18 6	1 9	12 43	1 44	8 21	0 44	14 48
T 3	7 38	22 52	2 27	4 39	3 45	18 44	2 30	22 22	0 48	18 7	1 9	12 45	1 44	8 20	0 44	14 48
F 4	7 16	20 19	3 28	5 13	3 31	18 38	2 24	22 17	0 48	18 7	1 10	12 46	1 44	8 18	0 44	14 48
S 5	6 53	16 32	4 15	5 46	3 15	18 32	2 19	22 11	0 49	18 7	1 10	12 48	1 44	8 17	0 44	14 49
S 6	6 31	11 52	4 47	6 20	2 58	18 26	2 14	22 5	0 50	18 8	1 10	12 49	1 44	8 15	0 44	14 49
M 7	6 9	6 41	5 1	6 52	2 40	18 19	2 9	21 59	0 51	18 8	1 10	12 51	1 44	8 14	0 44	14 50
T 8	5 46	1 18	4 57	7 22	2 22	18 11	2 3	21 53	0 52	18 8	1 10	12 53	1 44	8 13	0 44	14 50
W 9	5 24	4s 0	4 38	7 50	2 2	18 3	1 58	21 47	0 52	18 8	1 10	12 54	1 44	8 11	0 44	14 51
T 10	5 1	9 1	4 6	8 15	1 43	17 55	1 53	21 41	0 53	18 8	1 10	12 56	1 44	8 10	0 44	14 51
F 11	4 38	13 32	3 22	8 56	1 23	17 46	1 48	21 34	0 54	18 8	1 11	12 57	1 44	8 8	0 44	14 51
S 12	4 15	17 25	2 30	8 38	1 4	17 37	1 42	21 28	0 55	18 8	1 11	12 59	1 44	8 7	0 44	14 52
S 13	3 52	20 31	1 32	9 11	0 46	17 27	1 37	21 21	0 55	18 8	1 11	13 0	1 44	8 5	0 44	14 52
M14	3 29	22 43	0 31	9 22	0 28	17 17	1 32	21 14	0 56	18 8	1 11	13 2	1 44	8 4	0 44	14 53
T 15	3 6	23 54	0s32	9 29	0 10	17 6	1 27	21 7	0 57	18 8	1 11	13 3	1 44	8 3	0 44	14 53
W16	2 43	24 1	1 33	9 31	0n 6	16 55	1 22	21 0	0 58	18 8	1 11	13 4	1 44	8 1	0 44	14 54
T 17	2 20	23 1	2 31	9 30	0 21	16 43	1 17	20 52	0 59	18 8	1 11	13 6	1 44	8 0	0 44	14 54
F 18	1 57	20 55	3 23	9 24	0 35	16 31	1 12	20 45	0 59	18 7	1 12	13 7	1 44	7 58	0 44	14 55
S 19	1 34	17 46	4 7	9 14	0 48	16 18	1 7	20 37	1 0	18 7	1 12	13 9	1 44	7 57	0 44	14 55
S 20	1 10	13 44	4 39	9 0	1 0	16 5	1 2	20 30	1 1	18 7	1 12	13 10	1 44	7 56	0 44	14 56
M21	0 47	8 56	4 57	8 42	1 10	15 51	0 57	20 22	1 2	18 6	1 12	13 11	1 44	7 54	0 44	14 56
T 22	0 24	3 37	4 59	8 20	1 20	15 37	0 52	20 14	1 3	18 6	1 12	13 12	1 44	7 53	0 44	14 57
W23	0 0	1n59	4 44	7 56	1 28	15 22	0 47	20 6	1 3	18 6	1 12	13 14	1 44	7 51	0 44	14 57
T 24	0s23	7 35	4 12	7 28	1 35	15 7	0 42	19 58	1 4	18 5	1 12	13 15	1 44	7 50	0 44	14 58
F 25	0 46	12 51	3 25	6 57	1 40	14 52	0 38	19 50	1 5	18 4	1 13	13 16	1 44	7 49	0 44	14 58
S 26	1 10	17 27	2 24	6 24	1 45	14 36	0 33	19 42	1 6	18 4	1 13	13 17	1 44	7 47	0 44	14 59
S 27	1 33	21 4	1 15	5 49	1 48	14 20	0 28	19 33	1 7	18 3	1 13	13 18	1 44	7 46	0 44	14 59
M28	1 57	23 24	0 0	5 11	1 51	14 3	0 24	19 25	1 8	18 2	1 13	13 19	1 44	7 45	0 44	15 0
T 29	2 20	24 14	1n14	4 32	1 53	13 45	0 19	19 16	1 8	18 2	1 13	13 21	1 44	7 43	0 44	15 1
W30	2s43	23n31	2n23	3n51	1n53	13n28	0s15	19n 8	1n 9	18n 1	1s13	13s22	1s43	7n42	0n44	15s 1

Julian Day Number = 2438639.5, Delta T = 35.48 sec
Ecliptic obliquity = 23°26'39", Nutation = - 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°14'48", Lahiri = 23°21'49"

ASTRODIENST EPHEMERIS for the year 1964
geocentric

OCTOBER 1964

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 39 1	7 ^h 50'16	8 ^h 48'48	26 ^h 26'26	24 ^h 43'37	9 ^h 43'35	25°R41	29°R11	12 ^h 10'10	16 ^h 11'9	14 ^h 50'50	26°R41	26 ^h 11'51	28 ^h 57'58	15°R27	T 1
F 2	0 42 57	8°49'18	22°42'28	28°12'25	25°44'10	10°11'25	25°B38	29°A8	12°13'16	16°11'14	14°52'26	26°II35	26°48'29	29°4'15	15°K25	F 2
S 3	0 46 54	9°48'23	6 ^h 28'28	29°59'26	26°52'10	10°47'25	25°35'29	29°5'12	12°17'16	16°13'14	14°54'26	26°27'26	26°44'29	29°11'15	15°22'15	S 3
S 4	0 50 51	10°47'30	20°4'1	1 ^h 46'46	28°0'11	11°22'25	25°31'29	29°2'12	12°20'16	16°15'14	14°56'26	26°16'26	26°41'29	29°18'15	15°20'15	S 4
M 5	0 54 47	11°46'39	3 ^h 48'34	29°8'11	11°58'25	11°58'25	25°27'28	29°5'12	12°24'16	16°17'14	14°58'26	26°4'26	26°38'29	29°24'15	15°18'15	M 5
T 6	0 58 44	12°45'50	16°37'5	21°0'17	12°33'25	12°33'25	25°23'28	29°5'12	12°27'16	16°19'15	15°0'25	25°51'26	26°35'29	29°31'15	15°15'15	T 6
W 7	1 2 40	13°45'03	29°30'7	8°1'25	13°8'25	13°8'25	25°19'28	29°5'12	12°31'16	16°21'15	15°2'25	25°40'26	26°32'29	29°38'15	15°13'15	W 7
T 8	1 6 37	14°44'18	12 ^h 11'6	8°55'2	13°43'25	13°43'25	25°14'28	29°5'12	12°34'16	16°23'15	15°3'25	25°31'26	26°29'29	29°44'15	15°10'15	T 8
F 9	1 10 33	15°43'35	24°25'10	10°41'3	14°19'25	14°19'25	25°10'28	29°5'12	12°37'16	16°25'15	15°5'25	25°24'26	26°25'29	29°51'15	15°8'15	F 9
S 10	1 14 30	16°42'54	6 ^h 27'30	12°27'4	14°54'25	14°54'25	25°5'28	29°5'12	12°40'16	16°27'15	15°7'25	25°20'26	26°22'29	29°58'15	15°6'15	S 10
S 11	1 18 26	17°42'15	18°25'14	14°12'6	15°28'25	15°28'25	25°0'28	29°5'12	12°44'16	16°29'15	15°9'25	25°18'26	26°19'0	29°4'15	15°4'15	S 11
M 12	1 22 23	18°41'37	0 ^h 31'14	15°57'7	16°3'24	16°3'24	24°55'28	29°5'12	12°47'16	16°31'15	15°11'25	25°D18	26°16'0	29°11'15	15°1'15	M 12
T 13	1 26 19	19°41'02	12°1'17	17°41'8	16°38'24	16°38'24	24°49'28	29°5'12	12°50'16	16°33'15	15°13'25	25°18'26	26°13'0	29°17'14	14°59'15	T 13
W 14	1 30 16	20°40'28	23°53'19	19°24'9	17°12'24	17°12'24	24°44'28	29°5'12	12°53'16	16°35'15	15°15'25	25°R19	26°9'0	29°24'14	14°57'15	W 14
T 15	1 34 13	21°39'56	5 ^h 55'21	21°7'10	10°39'17	10°39'17	24°38'28	29°5'12	12°57'16	16°37'15	15°16'25	25°17'26	26°6'0	29°31'14	14°55'15	T 15
F 16	1 38 9	22°39'25	18°11'22	11°49'18	18°21'24	18°21'24	24°33'28	29°5'12	13°0'16	16°39'15	15°18'25	25°14'26	26°3'0	29°37'14	14°53'15	F 16
S 17	1 42 6	23°38'57	0 ^h 46'46	24°30'12	18°56'24	18°56'24	24°27'28	29°5'12	13°3'16	16°41'15	15°20'25	26°0'26	29°44'0	29°44'14	14°51'15	S 17
S 18	1 46 2	24°38'30	13°45'26	14°9'14	19°30'24	19°30'24	24°21'28	29°5'12	13°6'16	16°43'15	15°22'25	26°1'25	25°57'0	29°51'14	14°49'15	S 18
M 19	1 49 59	25°38'05	27°7'27	15°19'20	20°4'24	20°4'24	24°14'28	29°5'12	13°9'16	16°45'15	15°23'24	24°52'25	25°54'0	29°57'14	14°47'15	M 19
T 20	1 53 55	26°37'42	10 ^h 53'29	16°30'20	20°38'24	20°38'24	24°8'28	29°5'12	13°12'16	16°47'15	15°25'24	24°42'25	25°50'1	29°4'14	14°45'15	T 20
W 21	1 57 52	27°37'21	25°0'11	17°41'9	21°11'24	21°11'24	24°2'28	29°5'12	13°15'16	16°50'15	15°27'24	24°32'25	25°47'1	29°11'14	14°43'15	W 21
T 22	2 1 48	28°37'02	9 ^h 8'22	2°47'18	18°51'21	18°51'21	23°55'28	29°5'12	13°18'16	16°52'15	15°28'24	24°24'25	25°44'1	29°17'14	14°41'15	T 22
F 23	2 5 45	29°36'44	23°54'4	20°2'22	19°23	19°23	23°48'28	29°5'12	13°21'16	16°54'15	15°30'24	24°18'25	25°41'1	29°12'14	14°40'15	F 23
S 24	2 9 42	0 ^h 136'30	8 ^h 11'28	6°2'21	13°22	13°22	23°41'28	29°5'12	13°24'16	16°56'15	15°32'24	24°15'25	25°38'1	29°13'14	14°38'15	S 24
S 25	2 13 38	1°36'17	23°0'7	7°39'22	22°24'23	22°24'23	23°34'28	29°5'12	13°26'16	16°58'15	15°33'24	24°D14	25°34'1	29°13'14	14°36'15	S 25
M 26	2 17 35	2°36'06	7 ^h 25'25	9°14'23	23°35'28	23°35'28	23°27'28	29°5'12	13°29'16	17°0'15	15°35'24	24°15'25	25°31'1	29°14'14	14°35'15	M 26
T 27	2 21 31	3°35'58	21°39'10	10°50'24	24°47'23	24°47'23	23°20'28	29°5'12	13°32'16	17°3'15	15°36'24	24°16'25	25°28'1	29°15'14	14°33'15	T 27
W 28	2 25 28	4°35'52	5 ^h 41'12	12°25'25	25°58'25	25°58'25	23°13'28	29°5'12	13°35'16	17°5'15	15°38'24	24°R16	25°25'1	29°15'14	14°32'15	W 28
T 29	2 29 24	5°35'48	19°31'13	13°59'27	10°25'38	10°25'38	23°5'28	29°5'12	13°37'16	17°7'15	15°40'24	24°15'25	25°22'2	29°14'14	14°30'15	T 29
F 30	2 33 21	6°35'47	3 ^h 27'9	15°33'28	22°22'26	22°22'26	22°58'28	29°5'12	13°40'16	17°9'15	15°41'24	24°12'25	25°19'2	29°10'14	14°29'15	F 30
S 31	2 37 17	7 ^h 135'47	16 ^h 27'34	17 ^h 11'7	29 ^h 27'33	26 ^h 43'22	22°50'28	29°5'12	13 ^h 43'17	17 ^h 12'15	15 ^h 43'24	24 ^h 11'7	25 ^h 11'15	29 ^h 17'17	14 ^h 27'15	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	3s 7	21n20	3n23	3n 9	1n53	13n10	0s10	18n59	1n10	18n 0	1 s13	13s23	1s43	7n41	0n44	15s 2	1n43	18n33	13n41	23n24	23n24	23s38	1s11	4n56							
F 2	3 30	17 54	4 11	2 26	1 53	12 51	0 6	18 50	1 11	17 59	1 13	13 24	1 43	7 39	0 44	15 2	1 43	18 33	13 41	23 24	23 24	23 39	1 12	4 55							
S 3	3 53	13 32	4 43	1 42	1 51	12 32	0 1	18 41	1 12	17 58	1 13	13 25	1 43	7 38	0 44	15 3	1 43	18 32	13 42	23 24	23 24	23 40	1 14	4 55							
S 4	4 16	8 31	5 0	0 58	1 49	12 13	0n 3	18 32	1 13	17 57	1 14	13 25	1 43	7 37	0 44	15 3	1 43	18 32	13 42	23 23	23 24	23 41	1 15	4 55							
M 5	4 39	3 11	4 59	0 13	1 46	11 53	0 7	18 23	1 13	17 56	1 14	13 26	1 43	7 36	0 44	15 4	1 43	18 31	13 42	23 23	23 24	23 42	1 16	4 55							
T 6	5 3	2s12	4 42	0s33	1 43	11 33	0 11	18 14	1 14	17 55	1 14	13 27	1 43	7 34	0 44	15 5	1 43	18 30	13 42	23 23	23 24	23 42	1 17	4 55							
W 7	5 26	7 23	4 11	1 18	1 40	11 13	0 15	18 5	1 15	17 54	1 14	13 28	1 43	7 33	0 44	15 5	1 43	18 30	13 43	23 22	23 24	23 43	1 18	4 54							
T 8	5 49	12 10	3 28	2 4	1 36	10 52	0 19	17 55	1 16	17 53	1 14	13 29	1 43	7 32	0 44	15 6	1 43	18 29	13 43	23 22	23 24	23 44	1 19	4 54							
F 9	6 11	16 21	2 37	2 50	1 31	10 30	0 23	17 46	1 17	17 52	1 14	13 30	1 43	7 30	0 44	15 6	1 43	18 29	13 43	23 22	23 24	23 45	1 20	4 54							
S 10	6 34	19 47	1 38	3 35	1 26	10 9	0 27	17 36	1 18	17 50	1 14	13 30	1 43	7 29	0 44	15 7	1 43	18 28	13 43	23 22	23 24	23 46	1 21	4 54							
S 11	6 57	22 20	0 37	4 21	1 21	9 47	0 31	17 27	1 18	17 49	1 14	13 31	1 43	7 28	0 44	15 7	1 43	18 28	13 44	23 22	23 24	23 47	1 22	4 54							
M12	7 20	23 53	0s26	5 6	1 16	9 25	0 34	17 17	1 19	17 48	1 14	13 32	1 43	7 27	0 44	15 8	1 43	18 28	13 44	23 22	23 23	23 48	1 23	4 53							
T 13	7 42	24 22	1 28	5 51	1 10	9 2	0 38	17 8	1 20	17 47	1 14	13 32	1 43	7 26	0 44	15 9	1 43	18 27	13 44	23 22	23 23	23 49	1 24	4 53							
W14	8 4	23 44	2 27	6 36	1 5	8 39	0 42	16 58	1 21	17 45	1 14	13 33	1 43	7 24	0 44	15 9	1 43	18 27	13 44	23 22	23 23	23 50	1 25	4 53							
T 15	8 27	22 1	3 19	7 20	0 59	8 16	0 45	16 48	1 22	17 44	1 14	13 34	1 42	7 23	0 44	15 10	1 43	18 26	13 45	23 22	23 23	23 50	1 26	4 53							
F 16	8 49	19 15	4 4	8 4	0 52	7 53	0 48	16 39	1 23	17 42	1 14	13 34	1 42	7 22	0 44	15 11	1 43	18 26	13 45	23 22	23 23	23 51	1 27	4 52							
S 17	9 11	15 32	4 38	8 47	0 46	7 29	0 52	16 29	1 24	17 41	1 15	13 35	1 42	7 21	0 44	15 11	1 43	18 25	13 45	23 21	23 23	23 52	1 28	4 52							
S 18	9 33	10 59	4 59	9 30	0 40	7 5	0 55	16 19	1 25	17 39	1 15	13 35	1 42	7 20	0 45	15 12	1 43	18 25	13 46	23 21	23 23	23 53	1 29	4 52							
M19	9 55	5 48	5 5	10 12	0 33	6 41	0 58	16 9	1 25	17 38	1 15	13 35	1 42	7 19	0 45	15 12	1 43	18 25	13 46	23 21	23 23	23 54	1 30	4 52							
T 20	10 16	0 11	4 53	10 53	0 27	6 16	1 1	15 59	1 26	17 36	1 15	13 36	1 42	7 17	0 45	15 13	1 43	18 24	13 46	23 20	23 23	23 55	1 31	4 52							
W21	10 38	5n35	4 23	11 34	0 20	5 51	1 4	15 49	1 27	17 35	1 15	13 36	1 42	7 16	0 45	15 14	1 43	18 24	13 47	23 20	23 23	23 55	1 32	4 51							
T 22	10 59	11 11	3 37	12 14	0 13	5 26	1 7	15 39	1 28	17 33	1 15	13 37	1 42	7 15	0 45	15 14	1 43	18 24	13 47	23 20	23 23	23 56	1 33	4 51							
F 23	11 20	16 14	2 35	12 54	0 6	5 1	1 10	15 29	1 29	17 31	1 15	13 37	1 42	7 14	0 45	15 15	1 43	18 23	13 47	23 19	23 22	23 57	1 34	4 51							
S 24	11 41	20 21	1 24	13 32	0s 0	4 36	1 13	15 19	1 30	17 30	1 15	13 37	1 42	7 13	0 45	15 15	1 43	18 23	13 48	23 19	23 22	23 58	1 35	4 50							
S 25	12 2	23 9	0 7	14 10	0 7	4 10	1 15	15 9	1 31	17 28	1 15	13 37	1 42	7 12	0 45	15 16	1 43	18 23	13 48	23 19	23 22	23 59	1 36	4 50							
M26	12 23	24 25	1n10	14 48	0 14	3 44	1 18	14 58	1 32	17 26	1 15	13 37	1 41	7 11	0 45	15 17	1 43	18 22	13 49	23 19	23 22	23 59	1 37	4 50							
T 27	12 43	24 3	2 22	15 24	0 21	3 18	1 20	14 48	1 33	17 24	1 15	13 38	1 41	7 10	0 45	15 17	1 43	18 22	13 49	23 19	23 22	24 0	1 38	4 50							
W28	13 3	22 9	3 24	16 0	0 27	2 52	1 22	14 38	1 34	17 22	1 15	13 38	1 41	7 9	0 45	15 18	1 43	18 22	13 49	23 19	23 22	24 1	1 38	4 49							
T 29	13 23	18 59	4 14	16 35	0 34	2 25	1 25	14 28	1 35	17 21	1 15	13 38	1 41	7 8	0 45	15 19	1 43	18 22	13 50	23 19	23 22	24 2	1 39	4 49							
F 30	13 43	14 49	4 48	17 9	0 41	1 59	1 27	14 18	1 36	17 19	1 15	13 38	1 41	7 7	0 45	15 19	1 42	18 21	13 50	23 19	23 22	24 3	1 40	4 49							
S 31	14s 3	10n 0	5n 6	17s42	0s47	1n32	1n29	14n 7	1n36	17n17	1s15	13s38	1s41	7n 6	0n45	15s20	1n42	18n21	13n50	23n19	23n22	24s 3	1s41	4n49							

ASTRODIENST EPHEMERIS for the year 1964

geocentric

NOVEMBER 1964

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 41 14	8♉35°50	29♏47	18♌40	0♈45	27♏15	22°R42	28°R21	13♏45	17♌14	15♏44	24°R 0	25♏12	2♉24	14°R26	S 1
M 2	2 45 11	9°35'54	12♏47	20°12	1°57	27°48	22♏35	28°D21	13°48	17°16	15°45	23♏52	25° 9	2°30	14°R25	M 2
T 3	2 49 7	10°36'01	25°34	21°44	3° 9	28°20	22°27	28°21	13°50	17°18	15°47	23°44	25° 6	2°37	14°23	T 3
W 4	2 53 4	11°36'10	8♌ 8	23°16	4°22	28°52	22°19	28°21	13°53	17°20	15°48	23°36	25° 3	2°44	14°22	W 4
T 5	2 57 0	12°36'20	20°30	24°47	5°34	29°24	22°11	28°21	13°55	17°23	15°49	23°30	25° 0	2°50	14°21	T 5
F 6	3 0 57	13°36'32	2♏40	26°18	6°46	29°56	22° 3	28°21	13°57	17°25	15°51	23°26	24°56	2°57	14°20	F 6
S 7	3 4 53	14°36'46	14°39	27°49	7°59	0♏27	21°55	28°22	14° 0	17°27	15°52	23°24	24°53	3° 4	14°19	S 7
S 8	3 8 50	15°37'02	26°31	29°19	9°11	0°59	21°47	28°23	14° 2	17°29	15°53	23°D24	24°50	3°10	14°18	S 8
M 9	3 12 46	16°37'19	8♉18	0♏48	10°24	1°30	21°39	28°23	14° 4	17°32	15°55	23°25	24°47	3°17	14°17	M 9
T 10	3 16 43	17°37'38	20° 4	2°18	11°37	2° 1	21°31	28°24	14° 6	17°34	15°56	23°26	24°44	3°24	14°16	T 10
W 11	3 20 40	18°37'58	1♏55	3°46	12°49	2°32	21°22	28°25	14° 8	17°36	15°57	23°28	24°40	3°30	14°15	W 11
T 12	3 24 36	19°38'20	13°54	5°15	14° 2	3° 3	21°14	28°26	14°10	17°38	15°58	23°R29	24°37	3°37	14°15	T 12
F 13	3 28 33	20°38'43	26° 8	6°43	15°15	3°33	21° 6	28°27	14°12	17°41	15°59	23°29	24°34	3°43	14°14	F 13
S 14	3 32 29	21°39'07	8♏41	8°10	16°28	4° 4	20°58	28°28	14°14	17°43	16° 0	23°28	24°31	3°50	14°13	S 14
S 15	3 36 26	22°39'33	21°36	9°37	17°41	4°34	20°50	28°30	14°16	17°45	16° 2	23°25	24°28	3°57	14°13	S 15
M 16	3 40 22	23°40'00	4♏58	11° 3	18°54	5° 4	20°42	28°31	14°18	17°47	16° 3	23°21	24°25	4° 3	14°12	M 16
T 17	3 44 19	24°40'28	18°47	12°29	20° 8	5°34	20°33	28°33	14°20	17°50	16° 4	23°17	24°21	4°10	14°12	T 17
W 18	3 48 15	25°40'58	3♏ 2	13°53	21°21	6° 4	20°25	28°34	14°22	17°52	16° 5	23°12	24°18	4°17	14°11	W 18
T 19	3 52 12	26°41'30	17°39	15°18	22°34	6°34	20°17	28°36	14°24	17°54	16° 6	23° 9	24°15	4°23	14°11	T 19
F 20	3 56 9	27°42'02	2♏30	16°41	23°48	7° 3	20° 9	28°38	14°25	17°56	16° 6	23° 6	24°12	4°30	14°10	F 20
S 21	4 0 5	28°42'37	17°29	18° 3	25° 1	7°32	20° 1	28°40	14°27	17°59	16° 7	23°D 5	24° 9	4°37	14°10	S 21
S 22	4 4 2	29°43'13	2♏27	19°24	26°15	8° 1	19°53	28°42	14°29	18° 1	16° 8	23° 5	24° 6	4°43	14°10	S 22
M 23	4 7 58	0♏43'50	17°15	20°44	27°28	8°30	19°45	28°44	14°30	18° 3	16° 9	23° 6	24° 2	4°50	14°10	M 23
T 24	4 11 55	1°44'29	1♏49	22° 3	28°42	8°59	19°38	28°46	14°32	18° 5	16°10	23° 8	23°59	4°57	14°10	T 24
W 25	4 15 51	2°45'10	16° 4	23°19	29°56	9°27	19°30	28°48	14°33	18° 7	16°11	23° 9	23°56	5° 3	14°D10	W 25
T 26	4 19 48	3°45'53	29°59	24°34	1♌ 9	9°56	19°22	28°51	14°34	18°10	16°11	23°R10	23°53	5°10	14°10	T 26
F 27	4 23 44	4°46'36	13♏33	25°47	2°23	10°24	19°14	28°53	14°36	18°12	16°12	23° 9	23°50	5°17	14°10	F 27
S 28	4 27 41	5°47'22	26°47	26°58	3°37	10°51	19° 7	28°56	14°37	18°14	16°13	23° 8	23°46	5°23	14°10	S 28
S 29	4 31 38	6°48'09	9♏45	28° 6	4°51	11°19	18°59	28°59	14°38	18°16	16°14	23° 7	23°43	5°30	14°10	S 29
M 30	4 35 34	7♏48'58	22♏26	29♏10	6♌ 5	11♏46	18♏52	29° 1	14♏39	18♌18	16♏14	23♏ 4	23♏40	5♏36	14°R10	M 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	14s22	4n47	5n 7	18s14	0s54	1n 6	1n31	13n57	1n37	17n15	1s15	13s38	1s41	7n 5	0n45	S 1
M 2	14 41	0s34	4 s2	18 46	1 0	0 39	1 33	13 47	1 38	17 13	1 15	13 38	1 41	7 4	0 45	M 2
T 3	15 0	5 49	4 23	19 16	1 6	0 12	1 35	13 37	1 39	17 11	1 15	13 37	1 41	7 3	0 45	T 3
W 4	15 19	10 44	3 41	19 46	1 12	0s15	1 36	13 26	1 40	17 9	1 15	13 37	1 41	7 2	0 45	W 4
T 5	15 37	15 9	2 49	20 14	1 19	0 43	1 38	13 16	1 41	17 7	1 14	13 37	1 40	7 1	0 45	T 5
F 6	15 56	18 53	1 50	20 42	1 24	1 10	1 40	13 6	1 42	17 5	1 14	13 37	1 40	7 0	0 45	F 6
S 7	16 14	21 46	0 48	21 8	1 30	1 37	1 41	12 55	1 43	17 3	1 14	13 37	1 40	7 0	0 45	S 7
S 8	16 31	23 41	0s17	21 34	1 36	2 4	1 42	12 45	1 44	17 1	1 14	13 36	1 40	6 59	0 45	S 8
M 9	16 49	24 31	1 21	21 58	1 41	2 32	1 44	12 35	1 45	16 59	1 14	13 36	1 40	6 58	0 45	M 9
T 10	17 6	24 16	2 21	22 22	1 46	2 59	1 45	12 25	1 46	16 57	1 14	13 36	1 40	6 57	0 45	T 10
W 11	17 22	22 54	3 15	22 44	1 51	3 26	1 46	12 14	1 47	16 55	1 14	13 35	1 40	6 56	0 45	W 11
T 12	17 39	20 31	4 2	23 5	1 56	3 54	1 47	12 4	1 48	16 53	1 14	13 35	1 40	6 56	0 45	T 12
F 13	17 55	17 10	4 39	23 25	2 1	4 21	1 48	11 54	1 49	16 51	1 14	13 34	1 40	6 55	0 45	F 13
S 14	18 11	13 0	5 3	23 44	2 5	4 48	1 49	11 44	1 50	16 49	1 14	13 34	1 39	6 54	0 45	S 14
S 15	18 26	8 8	5 13	24 2	2 9	5 16	1 49	11 34	1 51	16 47	1 14	13 33	1 39	6 53	0 45	S 15
M 16	18 42	2 43	5 7	24 18	2 13	5 43	1 50	11 24	1 52	16 45	1 14	13 33	1 39	6 53	0 45	M 16
T 17	18 56	3n 0	4 43	24 33	2 16	6 10	1 50	11 14	1 53	16 43	1 13	13 32	1 39	6 52	0 46	T 17
W 18	19 11	8 45	4 4	24 47	2 20	6 37	1 51	11 4	1 54	16 41	1 13	13 31	1 39	6 51	0 46	W 18
T 19	19 25	14 10	3 3	24 59	2 22	7 4	1 51	10 54	1 56	16 39	1 13	13 31	1 39	6 51	0 46	T 19
F 20	19 39	18 51	1 51	25 11	2 25	7 31	1 51	10 44	1 57	16 37	1 13	13 30	1 39	6 50	0 46	F 20
S 21	19 53	22 21	0 31	25 21	2 27	7 57	1 52	10 34	1 58	16 35	1 13	13 29	1 39	6 50	0 46	S 21
S 22	20 6	24 17	0n51	25 29	2 28	8 24	1 52	10 24	1 59	16 33	1 13	13 28	1 39	6 49	0 46	S 22
M 23	20 18	24 28	2 10	25 36	2 29	8 50	1 52	10 14	2 0	16 31	1 13	13 27	1 38	6 48	0 46	M 23
T 24	20 31	22 58	3 18	25 42	2 30	9 16	1 52	10 4	2 1	16 29	1 12	13 26	1 38	6 48	0 46	T 24
W 25	20 43	20 2	4 12	25 46	2 30	9 43	1 52	9 55	2 2	16 27	1 12	13 26	1 38	6 47	0 46	W 25
T 26	20 54	16 1	4 51	25 49	2 29	10 8	1 51	9 45	2 3	16 25	1 12	13 25	1 38	6 47	0 46	T 26
F 27	21 6	11 16	5 12	25 51	2 28	10 34	1 51	9 35	2 4	16 23	1 12	13 24	1 38	6 46	0 46	F 27
S 28	21 17	6 6	5 16	25 51	2 26	11 0	1 50	9 26	2 5	16 21	1 12	13 23	1 38	6 46	0 46	S 28
S 29	21 27	0 47	5 3	25 49	2 23	11 25	1 50	9 16	2 7	16 20	1 11	13 22	1 38	6 46	0 46	S 29
M 30	21s37	4s28	4n36	25s46	2s20	11s50	1n49	9n 7	2n 8	16n18	1s11	13s20	1s38	6n45	0n46	M 30

Julian Day Number = 2438700.5, Delta T = 35.61 sec

Ecliptic obliquity = 23°26'39", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°14'57", Lahiri = 23°21'57"

ASTRODIENST EPHEMERIS for the year 1964

geocentric

DECEMBER 1964

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 39 31	8°49'48	4♌54	0♈11	7♌19	12♎13	18°R45	29°44	14♎40	18♌20	16♎15	23°R 2	23♐37	5♈43	14♈11	T 1
W 2	4 43 27	9°50'39	17°11	1° 8	8°33	12°40	18♈38	29° 7	14°41	18°23	16°15	23♐ 0	23°34	5°50	14°11	W 2
T 3	4 47 24	10°51'31	29°18	2° 0	9°47	13° 7	18°31	29°11	14°42	18°25	16°16	22°58	23°31	5°56	14°12	T 3
F 4	4 51 20	11°52'25	11♌17	2°47	11° 2	13°33	18°24	29°14	14°43	18°27	16°16	22°57	23°27	6° 3	14°12	F 4
S 5	4 55 17	12°53'20	23°10	3°27	12°16	14° 0	18°17	29°17	14°44	18°29	16°17	22°D57	23°24	6°10	14°13	S 5
S 6	4 59 13	13°54'16	4♈58	4° 1	13°30	14°25	18°10	29°20	14°45	18°31	16°17	22°57	23°21	6°16	14°13	S 6
M 7	5 3 10	14°55'13	16°45	4°27	14°44	14°51	18° 4	29°24	14°46	18°33	16°18	22°58	23°18	6°23	14°14	M 7
T 8	5 7 7	15°56'11	28°33	4°45	15°59	15°16	17°58	29°27	14°47	18°35	16°18	22°59	23°15	6°30	14°15	T 8
W 9	5 11 3	16°57'09	10♌25	4°R53	17°13	15°42	17°51	29°31	14°47	18°37	16°18	23° 0	23°12	6°36	14°15	W 9
T 10	5 15 0	17°58'08	22°24	4°50	18°27	16° 6	17°45	29°35	14°48	18°39	16°19	23° 0	23° 8	6°43	14°16	T 10
F 11	5 18 56	18°59'08	4♈36	4°37	19°42	16°31	17°39	29°39	14°48	18°41	16°19	23° 1	23° 5	6°50	14°17	F 11
S 12	5 22 53	20° 0'08	17° 5	4°13	20°56	16°55	17°33	29°43	14°49	18°43	16°19	23°R 1	23° 2	6°56	14°18	S 12
S 13	5 26 49	21° 1'09	29°53	3°37	22°11	17°19	17°28	29°47	14°49	18°45	16°19	23° 1	22°59	7° 3	14°19	S 13
M14	5 30 46	22° 2'10	13°V 7	2°50	23°25	17°43	17°22	29°51	14°50	18°47	16°19	23° 1	22°56	7°10	14°20	M14
T 15	5 34 43	23° 3'11	26°47	1°52	24°40	18° 6	17°17	29°55	14°50	18°49	16°20	23°D 1	22°52	7°16	14°21	T 15
W16	5 38 39	24° 4'14	10♈54	0°44	25°54	18°29	17°12	29°59	14°50	18°51	16°20	23° 1	22°49	7°23	14°22	W16
T 17	5 42 36	25° 5'16	25°28	29♌30	27° 9	18°52	17° 7	0♈ 3	14°51	18°53	16°20	23° 1	22°46	7°30	14°24	T 17
F 18	5 46 32	26° 6'19	10♐23	28°10	28°23	19°14	17° 2	0° 8	14°51	18°55	16°20	23° 1	22°43	7°36	14°25	F 18
S 19	5 50 29	27° 7'23	25°32	26°47	29°38	19°36	16°58	0°12	14°51	18°57	16°R20	23°R 1	22°40	7°43	14°26	S 19
S 20	5 54 25	28° 8'27	10♐46	25°24	0♈53	19°58	16°53	0°17	14°R51	18°59	16°20	23° 1	22°37	7°49	14°27	S 20
M21	5 58 22	29° 9'32	25°55	24° 5	2° 7	20°19	16°49	0°21	14°51	19° 0	16°20	23° 0	22°33	7°56	14°29	M21
T 22	6 2 18	0♈10'38	10♐51	22°51	3°22	20°40	16°45	0°26	14°51	19° 2	16°20	23° 0	22°30	8° 3	14°30	T 22
W23	6 6 15	1°11'44	25°25	21°44	4°37	21° 1	16°41	0°31	14°51	19° 4	16°20	22°59	22°27	8° 9	14°32	W23
T 24	6 10 12	2°12'50	9♎34	20°47	5°52	21°21	16°38	0°36	14°50	19° 6	16°19	22°58	22°24	8°16	14°34	T 24
F 25	6 14 8	3°13'58	23°16	19°59	7° 6	21°41	16°34	0°41	14°50	19° 8	16°19	22°57	22°21	8°23	14°35	F 25
S 26	6 18 5	4°15'06	6♐33	19°22	8°21	22° 1	16°31	0°46	14°50	19° 9	16°19	22°D57	22°18	8°29	14°37	S 26
S 27	6 22 1	5°16'14	19°26	18°56	9°36	22°20	16°28	0°51	14°50	19°11	16°19	22°57	22°14	8°36	14°39	S 27
M28	6 25 58	6°17'23	1♌59	18°40	10°51	22°38	16°25	0°56	14°49	19°13	16°18	22°58	22°11	8°43	14°40	M28
T 29	6 29 54	7°18'33	14°15	18°D35	12° 6	22°57	16°22	1° 1	14°49	19°14	16°18	23° 0	22° 8	8°49	14°42	T 29
W30	6 33 51	8°19'43	26°20	18°38	13°21	23°15	16°20	1° 7	14°48	19°16	16°18	23° 1	22° 5	8°56	14°44	W30
T 31	6 37 47	9♈20'53	8♌16	18♌51	14♌36	23♎32	16♈18	1♈12	14♎48	19♌18	16♎17	23♐ 2	22♐ 2	9♈ 3	14♈46	T 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	21s47	9s27	3n56	25s42	2s15	12s15	1n49	8n58	2n 9	16n16	1s11	13s19	1s38	6n45
W 2	21 56	14 0	3 6	25 36	2 10	12 39	1 48	8 48	2 10	16 14	1 11	13 18	1 37	6 44
T 3	22 5	17 56	2 8	25 30	2 4	13 3	1 47	8 39	2 11	16 12	1 11	13 17	1 37	6 44
F 4	22 13	21 4	1 4	25 21	1 56	13 27	1 46	8 30	2 12	16 11	1 10	13 16	1 37	6 44
S 5	22 21	23 17	0s 1	25 12	1 48	13 51	1 45	8 21	2 14	16 9	1 10	13 15	1 37	6 43
S 6	22 28	24 27	1 6	25 1	1 38	14 14	1 44	8 12	2 15	16 7	1 10	13 13	1 37	6 43
M 7	22 35	24 31	2 8	24 49	1 27	14 37	1 43	8 3	2 16	16 6	1 10	13 12	1 37	6 43
T 8	22 42	23 29	3 5	24 36	1 14	15 0	1 42	7 55	2 17	16 4	1 10	13 11	1 37	6 43
W 9	22 48	21 24	3 54	24 22	1 1	15 22	1 41	7 46	2 18	16 3	1 9	13 9	1 37	6 42
T 10	22 54	18 22	4 34	24 7	0 45	15 44	1 39	7 38	2 20	16 1	1 9	13 8	1 37	6 42
F 11	22 59	14 30	5 2	23 51	0 29	16 5	1 38	7 29	2 21	16 0	1 9	13 6	1 37	6 42
S 12	23 4	9 57	5 16	23 34	0 11	16 26	1 37	7 21	2 22	15 59	1 9	13 5	1 37	6 42
S 13	23 8	4 52	5 16	23 16	0n 8	16 47	1 35	7 13	2 23	15 57	1 8	13 3	1 36	6 42
M14	23 12	0n35	4 59	22 58	0 27	17 7	1 34	7 5	2 25	15 56	1 8	13 2	1 36	6 42
T 15	23 16	6 13	4 25	22 39	0 47	17 27	1 32	6 57	2 26	15 55	1 8	13 0	1 36	6 42
W16	23 19	11 43	3 34	22 19	1 7	17 46	1 30	6 49	2 27	15 54	1 8	12 59	1 36	6 41
T 17	23 21	16 45	2 27	21 59	1 27	18 5	1 28	6 41	2 29	15 52	1 7	12 57	1 36	6 41
F 18	23 23	20 51	1 10	21 40	1 46	18 24	1 27	6 34	2 30	15 51	1 7	12 56	1 36	6 41
S 19	23 25	23 36	0n14	21 21	2 3	18 42	1 25	6 26	2 31	15 50	1 7	12 54	1 36	6 41
S 20	23 26	24 37	1 37	21 3	2 19	18 59	1 23	6 19	2 33	15 49	1 7	12 52	1 36	6 41
M21	23 26	23 48	2 53	20 46	2 32	19 16	1 21	6 12	2 34	15 48	1 6	12 50	1 36	6 42
T 22	23 27	21 18	3 56	20 32	2 44	19 32	1 19	6 5	2 35	15 47	1 6	12 49	1 36	6 42
W23	23 26	17 28	4 42	20 19	2 52	19 48	1 17	5 58	2 37	15 47	1 6	12 47	1 36	6 42
T 24	23 26	12 45	5 9	20 9	2 59	20 4	1 15	5 51	2 38	15 46	1 5	12 45	1 36	6 42
F 25	23 24	7 32	5 18	20 2	3 3	20 18	1 13	5 45	2 40	15 45	1 5	12 43	1 35	6 42
S 26	23 23	2 8	5 9	19 57	3 4	20 33	1 10	5 38	2 41	15 44	1 5	12 41	1 35	6 42
S 27	23 20	3s13	4 44	19 55	3 4	20 46	1 8	5 32	2 42	15 44	1 5	12 40	1 35	6 42
M28	23 18	8 18	4 7	19 56	3 3	20 59	1 6	5 26	2 44	15 43	1 4	12 38	1 35	6 42
T 29	23 15	12 57	3 19	19 58	2 59	21 12	1 4	5 20	2 45	15 43	1 4	12 36	1 35	6 43
W30	23 11	17 1	2 23	20 3	2 55	21 23	1 1	5 14	2 47	15 42	1 4	12 34	1 35	6 43
T 31	23s 7	20s21	1n21	20s10	2n49	21s35	0n59	5n 9	2n48	15n42	1s 3	12s32	1s35	6n43

Julian Day Number = 2438730.5, Delta T = 35.67 sec
 Ecliptic obliquity = 23°26'39", Nutation = - 0°00'18", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°15'01", Lahiri = 23°22'01"