



Astrodienst Ephemeris Tables for the year 1961

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 1961

geocentric

JANUARY 1961

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 41 37	10°20'30	29°49	7°25	25°17	8°R 7	14°5	19°35	25°R23	10°M50	8°R 1	7°R53	9°M21	26°35	28°52	S 1
M 2	6 45 34	11°21'38	11°46	9° 1	26°26	7°544	14°19	19°42	25°M21	10°52	8°M 0	7°M42	9°17	26°41	28°55	M 2
T 3	6 49 30	12°22'47	23°39	10°37	27°34	7°21	14°33	19°49	25°19	10°53	7°59	7°32	9°14	26°48	28°59	T 3
W 4	6 53 27	13°23'56	5°28	12°14	28°42	6°58	14°47	19°56	25°18	10°54	7°59	7°25	9°11	26°55	29° 2	W 4
T 5	6 57 24	14°25'04	17°16	13°50	29°50	6°35	15° 1	20° 3	25°16	10°55	7°58	7°20	9° 8	27° 1	29° 5	T 5
F 6	7 1 20	15°26'13	29° 7	15°28	0°58	6°12	15°15	20°10	25°14	10°57	7°57	7°17	9° 5	27° 8	29° 8	F 6
S 7	7 5 17	16°27'22	11°M 2	17° 5	2° 5	5°50	15°29	20°17	25°12	10°58	7°56	7°D17	9° 2	27°15	29°11	S 7
S 8	7 9 13	17°28'30	23° 6	18°43	3°13	5°29	15°43	20°25	25°10	10°59	7°55	7°18	8°58	27°21	29°14	S 8
M 9	7 13 10	18°29'39	5°24	20°22	4°20	5° 8	15°57	20°32	25° 9	11° 0	7°54	7°19	8°55	27°28	29°18	M 9
T 10	7 17 6	19°30'48	18° 1	22° 0	5°27	4°47	16°11	20°39	25° 7	11° 1	7°54	7°R20	8°52	27°35	29°21	T 10
W11	7 21 3	20°31'57	1°M 1	23°40	6°34	4°27	16°25	20°46	25° 5	11° 2	7°53	7°20	8°49	27°41	29°24	W11
T 12	7 24 59	21°33'06	14°28	25°19	7°40	4° 7	16°39	20°53	25° 3	11° 3	7°52	7°17	8°46	27°48	29°28	T 12
F 13	7 28 56	22°34'15	28°25	27° 0	8°47	3°49	16°53	21° 0	25° 0	11° 4	7°51	7°13	8°42	27°55	29°31	F 13
S 14	7 32 53	23°35'24	12°51	28°40	9°53	3°30	17° 7	21° 7	24°58	11° 5	7°50	7° 7	8°39	28° 2	29°35	S 14
S 15	7 36 49	24°36'32	27°41	0°21	10°58	3°13	17°21	21°14	24°56	11° 6	7°49	7° 0	8°36	28° 8	29°38	S 15
M16	7 40 46	25°37'41	12°50	2° 3	12° 4	2°56	17°35	21°21	24°54	11° 7	7°48	6°53	8°33	28°15	29°42	M16
T 17	7 44 42	26°38'49	28° 8	3°44	13° 9	2°39	17°49	21°28	24°52	11° 8	7°47	6°48	8°30	28°22	29°45	T 17
W18	7 48 39	27°39'56	13°23	5°26	14°14	2°24	18° 3	21°36	24°50	11° 9	7°46	6°44	8°27	28°28	29°49	W18
T 19	7 52 35	28°41'02	28°26	7° 9	15°19	2° 9	18°17	21°43	24°47	11°10	7°44	6°42	8°23	28°35	29°52	T 19
F 20	7 56 32	29°42'08	13°8	8°51	16°23	1°55	18°30	21°50	24°45	11°10	7°43	6°D42	8°20	28°42	29°56	F 20
S 21	8 0 28	0°43'13	27°25	10°34	17°27	1°42	18°44	21°57	24°43	11°11	7°42	6°43	8°17	28°48	29°59	S 21
S 22	8 4 25	1°44'17	11°Y14	12°16	18°31	1°29	18°58	22° 4	24°40	11°12	7°41	6°44	8°14	28°55	0°3	S 22
M23	8 8 22	2°45'20	24°37	13°59	19°35	1°18	19°12	22°11	24°38	11°13	7°40	6°46	8°11	29° 2	0° 7	M23
T 24	8 12 18	3°46'22	7°37	15°41	20°38	1° 7	19°26	22°18	24°36	11°13	7°39	6°R46	8° 8	29° 8	0°11	T 24
W25	8 16 15	4°47'23	20°16	17°23	21°41	0°57	19°39	22°25	24°33	11°14	7°37	6°45	8° 4	29°15	0°15	W25
T 26	8 20 11	5°48'22	2°M39	19° 4	22°43	0°48	19°53	22°32	24°31	11°14	7°36	6°42	8° 1	29°22	0°18	T 26
F 27	8 24 8	6°49'21	14°49	20°44	23°45	0°39	20° 7	22°39	24°28	11°15	7°35	6°38	7°58	29°28	0°22	F 27
S 28	8 28 4	7°50'19	26°50	22°23	24°47	0°32	20°21	22°46	24°26	11°15	7°34	6°33	7°55	29°35	0°26	S 28
S 29	8 32 1	8°51'15	8°45	24° 1	25°48	0°25	20°34	22°53	24°23	11°16	7°32	6°28	7°52	29°42	0°30	S 29
M30	8 35 57	9°52'10	20°36	25°37	26°49	0°19	20°48	23° 0	24°21	11°16	7°31	6°23	7°48	29°48	0°34	M30
T 31	8 39 54	10°53'05	2°M25	27°10	27°49	0°14	21°3	23°3	24°18	11°17	7°M30	6°M19	7°M45	29°55	0°38	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23s 2	18n44	4s42	24s47	1s33	14s39	1s39	26n54	3n42	22s47	0s 5	21s54	0n 7	13n46	0n45	13s25
M 2	22 57	18 44	4 13	24 45	1 37	14 13	1 36	26 56	3 44	22 46	0 6	21 53	0 7	13 47	0 45	13 26
T 3	22 52	17 53	3 32	24 42	1 41	13 47	1 33	26 58	3 45	22 44	0 6	21 52	0 7	13 47	0 45	13 26
W 4	22 46	16 17	2 42	24 37	1 45	13 20	1 30	27 1	3 45	22 43	0 6	21 51	0 7	13 48	0 45	13 26
T 5	22 40	13 59	1 46	24 31	1 49	12 53	1 27	27 3	3 46	22 42	0 6	21 50	0 6	13 49	0 45	13 27
F 6	22 33	11 6	0 44	24 24	1 52	12 26	1 23	27 5	3 47	22 40	0 6	21 49	0 6	13 49	0 45	13 27
S 7	22 26	7 45	0n20	24 15	1 55	11 58	1 20	27 6	3 48	22 39	0 6	21 48	0 6	13 50	0 45	13 27
S 8	22 18	4 2	1 24	24 5	1 58	11 31	1 16	27 8	3 48	22 37	0 6	21 47	0 6	13 51	0 45	13 28
M 9	22 10	0 5	2 26	23 52	2 0	11 3	1 12	27 9	3 49	22 35	0 6	21 46	0 6	13 51	0 45	13 28
T 10	22 1	3s57	3 22	23 39	2 2	10 34	1 8	27 10	3 49	22 34	0 6	21 45	0 6	13 52	0 45	13 28
W11	21 52	7 56	4 10	23 24	2 4	10 6	1 4	27 11	3 49	22 32	0 6	21 44	0 6	13 53	0 45	13 28
T 12	21 43	11 38	4 45	23 7	2 5	9 37	1 0	27 12	3 49	22 31	0 7	21 43	0 6	13 53	0 45	13 29
F 13	21 33	14 50	5 6	22 49	2 6	9 9	0 56	27 12	3 49	22 29	0 7	21 42	0 6	13 54	0 46	13 29
S 14	21 23	17 15	5 8	22 29	2 6	8 40	0 51	27 13	3 49	22 27	0 7	21 41	0 6	13 55	0 46	13 29
S 15	21 12	18 36	4 50	22 8	2 6	8 11	0 47	27 13	3 49	22 26	0 7	21 40	0 6	13 56	0 46	13 29
M16	21 1	18 39	4 11	21 45	2 6	7 41	0 42	27 13	3 49	22 24	0 7	21 39	0 6	13 56	0 46	13 30
T 17	20 50	17 22	3 14	21 21	2 5	7 12	0 38	27 13	3 49	22 22	0 7	21 38	0 6	13 57	0 46	13 30
W18	20 38	14 50	2 3	20 55	2 4	6 42	0 33	27 13	3 48	22 21	0 7	21 37	0 6	13 58	0 46	13 30
T 19	20 26	11 19	0 45	20 27	2 2	6 13	0 28	27 13	3 48	22 19	0 7	21 36	0 5	13 59	0 46	13 30
F 20	20 13	7 10	0s35	19 58	1 59	5 43	0 23	27 13	3 47	22 17	0 7	21 35	0 5	13 59	0 46	13 30
S 21	20 0	2 43	1 51	19 27	1 56	5 13	0 17	27 13	3 47	22 15	0 7	21 34	0 5	14 0	0 46	13 31
S 22	19 47	1n43	2 57	18 55	1 53	4 43	0 12	27 12	3 46	22 13	0 7	21 33	0 5	14 1	0 46	13 31
M23	19 33	5 56	3 52	18 22	1 49	4 14	0 6	27 12	3 45	22 12	0 8	21 32	0 5	14 2	0 46	13 31
T 24	19 19	9 44	4 33	17 47	1 44	3 44	0 1	27 11	3 45	22 10	0 8	21 31	0 5	14 3	0 46	13 31
W25	19 4	12 59	5 0	17 11	1 38	3 14	0n 5	27 10	3 44	22 8	0 8	21 30	0 5	14 3	0 46	13 31
T 26	18 49	15 35	5 12	16 34	1 32	2 44	0 11	27 9	3 43	22 6	0 8	21 29	0 5	14 4	0 46	13 31
F 27	18 34	17 27	5 10	15 56	1 25	2 14	0 17	27 9	3 42	22 4	0 8	21 28	0 5	14 5	0 46	13 31
S 28	18 19	18 31	4 54	15 16	1 17	1 44	0 23	27 8	3 41	22 2	0 8	21 26	0 5	14 6	0 46	13 32
S 29	18 3	18 45	4 25	14 36	1 9	1 14	0 29	27 7	3 40	22 0	0 8	21 25	0 5	14 7	0 46	13 32
M30	17 47	18 9	3 45	13 55	1 0	0 44	0 35	27 6	3 39	21 58	0 8	21 24	0 5	14 8	0 46	13 32
T 31	17s30	16n46	2s55	13s14	0s50	0s14	0n42	27n 5	3n38	21s56	0s 8	21s23	0n 5	14n 9	0n46	13s32

Julian Day Number = 2437300.5, Delta T = 33.59 sec

Ecliptic obliquity = 23°26'30, Nutation = - 0°00'06, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°11'44, Lahiri = 23°18'45

ASTRODIENST EPHEMERIS for the year 1961
geocentric

FEBRUARY 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 43 51	11 ⁵³ 58	14 ⁰² 15	28 ⁴⁴ 41	28 ⁴⁴ 49	0°R10	21 ³⁵ 15	23 ³⁵ 13	24°R16	11 ¹⁸ 17	7°R28	6°R16	7 ⁴² 42	0 ⁰² 2	0 ⁴¹ 41	W 1
T 2	8 47 47	12°54'50	26° 8	0 ⁴⁸ 8	29°48	0 ⁵⁶ 6	21°29	23°20	24 ⁰² 13	11°17	7 ⁴² 27	6 ¹⁴ 14	7°39	0° 8	0°45	T 2
F 3	8 51 44	13°55'41	8 ⁴² 4	1°32	0 ⁴⁷ 4	0° 3	21°42	23°27	24°11	11°18	7°25	6°D13	7°36	0°15	0°49	F 3
S 4	8 55 40	14°56'31	20° 7	2°50	1°46	0° 1	21°55	23°34	24° 8	11°18	7°24	6°14	7°33	0°22	0°53	S 4
S 5	8 59 37	15°57'20	2 ⁴² 20	4° 4	2°44	0° 0	22° 9	23°41	24° 6	11°18	7°23	6°15	7°29	0°28	0°57	S 5
M 6	9 3 33	16°58'08	14°44	5°11	3°41	29°D59	22°22	23°47	24° 3	11°18	7°21	6°17	7°26	0°35	1° 1	M 6
T 7	9 7 30	17°58'55	27°24	6°12	4°38	29°II59	22°36	23°54	24° 0	11°19	7°20	6°18	7°23	0°42	1° 5	T 7
W 8	9 11 26	18°59'41	10 ⁴² 23	7° 4	5°34	0 ⁵⁶ 1	22°49	24° 1	23°58	11°19	7°18	6°19	7°20	0°48	1° 9	W 8
T 9	9 15 23	20° 0'26	23°44	7°49	6°30	0° 3	23° 2	24° 7	23°55	11°19	7°17	6°R20	7°17	0°55	1°13	T 9
F 10	9 19 20	21° 1'11	7 ⁴² 29	8°24	7°25	0° 5	23°15	24°14	23°52	11°19	7°15	6°19	7°14	1° 2	1°17	F 10
S 11	9 23 16	22° 1'54	21°39	8°50	8°19	0° 8	23°29	24°21	23°50	11°R19	7°14	6°18	7°10	1° 8	1°21	S 11
S 12	9 27 13	23° 2'36	6 ⁴² 12	9° 5	9°13	0°12	23°42	24°27	23°47	11°19	7°13	6°16	7° 7	1°15	1°25	S 12
M13	9 31 9	24° 3'17	21° 4	9°R11	10° 6	0°17	23°55	24°34	23°45	11°19	7°11	6°14	7° 4	1°22	1°29	M13
T 14	9 35 6	25° 3'57	6 ⁴² 9	9° 5	10°59	0°22	24° 8	24°40	23°42	11°19	7°10	6°13	7° 1	1°28	1°33	T 14
W15	9 39 2	26° 4'35	21°17	8°49	11°50	0°28	24°21	24°47	23°39	11°19	7° 8	6°12	6°58	1°35	1°37	W15
T 16	9 42 59	27° 5'12	6 ⁴² 19	8°23	12°41	0°35	24°34	24°53	23°37	11°19	7° 7	6°D12	6°54	1°42	1°41	T 16
F 17	9 46 55	28° 5'47	21° 7	7°47	13°32	0°42	24°46	24°59	23°34	11°18	7° 5	6°12	6°51	1°48	1°45	F 17
S 18	9 50 52	29° 6'21	5 ⁴² 34	7° 3	14°21	0°50	24°59	25° 6	23°31	11°18	7° 3	6°13	6°48	1°55	1°49	S 18
S 19	9 54 48	0 ⁴² 52	19°35	6°11	15° 9	0°58	25°12	25°12	23°29	11°18	7° 2	6°13	6°45	2° 2	1°53	S 19
M20	9 58 45	1° 7'22	3 ⁴² 9	5°13	15°57	1° 8	25°25	25°18	23°26	11°18	7° 0	6°14	6°42	2° 8	1°57	M20
T 21	10 2 42	2° 7'51	16°17	4°11	16°44	1°17	25°37	25°24	23°24	11°17	6°59	6°14	6°39	2°15	2° 1	T 21
W22	10 6 38	3° 8'17	29° 2	3° 6	17°29	1°28	25°50	25°31	23°21	11°17	6°57	6°R15	6°35	2°22	2° 5	W22
T 23	10 10 35	4° 8'41	11°II26	2° 0	18°14	1°39	26° 2	25°37	23°18	11°17	6°56	6°15	6°32	2°28	2°10	T 23
F 24	10 14 31	5° 9'04	23°36	0°54	18°58	1°50	26°15	25°43	23°16	11°16	6°54	6°14	6°29	2°35	2°14	F 24
S 25	10 18 28	6° 9'24	5 ⁴² 34	29°51	19°40	2° 2	26°27	25°49	23°13	11°16	6°53	6°D14	6°26	2°42	2°18	S 25
S 26	10 22 24	7° 9'43	17°25	28°50	20°22	2°15	26°39	25°55	23°11	11°15	6°51	6°14	6°23	2°48	2°22	S 26
M27	10 26 21	8°10'00	29°14	27°55	21° 2	2°28	26°52	26° 1	23° 8	11°15	6°50	6°15	6°19	2°55	2°26	M27
T 28	10 30 17	9 ⁴² 10'15	11°02 3	27°55	21°41	2 ⁵⁴ 1	27°34	26°36	23°02 6	11°14	6 ⁴² 48	6 ⁴² 15	6 ⁴² 16	3°02 2	2 ⁴² 30	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17s13	14n40	1s58	12s32	0s39	0n16	0n48	27n 4	3n37	21s54	0s 9	21s22	0n 5	14n 9	0n46	13s32	1n46	20n50	13n 3	9n13	8n41	17n 4	6s 4	5n31			
T 2	16 56	11 56	0 55	11 51	0 27	0 45	0 55	27 3	3 36	21 52	0 9	21 21	0 4	14 10	0 46	13 32	1 46	20 50	13 3	9 14	8 42	17 3	6 2	5 31			
F 3	16 39	8 42	0n10	11 10	0 15	1 15	1 1	27 1	3 35	21 50	0 9	21 20	0 4	14 11	0 46	13 32	1 47	20 51	13 3	9 14	8 43	17 3	6 1	5 31			
S 4	16 21	5 5	1 16	10 29	0 1	1 45	1 8	27 0	3 34	21 48	0 9	21 19	0 4	14 12	0 46	13 32	1 47	20 52	13 3	9 14	8 44	17 2	6 0	5 31			
S 5	16 3	1 12	2 19	9 49	0n13	2 14	1 15	26 59	3 33	21 46	0 9	21 18	0 4	14 13	0 46	13 32	1 47	20 53	13 4	9 13	8 46	17 1	5 59	5 31			
M 6	15 45	2s47	3 17	9 11	0 27	2 43	1 22	26 58	3 31	21 44	0 9	21 17	0 4	14 14	0 46	13 32	1 47	20 53	13 4	9 12	8 47	17 0	5 57	5 31			
T 7	15 27	6 43	4 7	8 35	0 43	3 12	1 29	26 57	3 30	21 42	0 9	21 16	0 4	14 15	0 46	13 32	1 47	20 54	13 4	9 12	8 48	17 0	5 56	5 30			
W 8	15 8	10 25	4 45	8 1	0 58	3 41	1 36	26 55	3 29	21 40	0 9	21 15	0 4	14 16	0 46	13 32	1 47	20 55	13 4	9 12	8 49	16 59	5 55	5 30			
T 9	14 49	13 43	5 9	7 29	1 15	4 10	1 44	26 54	3 28	21 38	0 9	21 13	0 4	14 16	0 46	13 32	1 47	20 56	13 4	9 11	8 50	16 58	5 54	5 30			
F 10	14 30	16 21	5 17	7 1	1 31	4 39	1 51	26 53	3 26	21 36	0 9	21 12	0 4	14 17	0 46	13 32	1 47	20 56	13 5	9 12	8 52	16 58	5 52	5 30			
S 11	14 10	18 6	5 6	6 36	1 47	5 7	1 59	26 51	3 25	21 33	0 10	21 11	0 4	14 18	0 46	13 32	1 47	20 57	13 5	9 12	8 53	16 57	5 51	5 30			
S 12	13 50	18 43	4 35	6 15	2 4	5 35	2 6	26 50	3 24	21 31	0 10	21 10	0 4	14 19	0 46	13 32	1 47	20 58	13 5	9 13	8 54	16 56	5 50	5 30			
M13	13 30	18 5	3 45	5 58	2 19	6 3	2 14	26 49	3 22	21 29	0 10	21 9	0 4	14 20	0 46	13 32	1 47	20 59	13 5	9 13	8 55	16 55	5 48	5 30			
T 14	13 10	16 10	2 39	5 46	2 35	6 31	2 22	26 48	3 21	21 27	0 10	21 8	0 4	14 21	0 46	13 32	1 47	20 59	13 5	9 14	8 56	16 55	5 47	5 30			
W15	12 50	13 7	1 22	5 39	2 49	6 58	2 29	26 46	3 20	21 25	0 10	21 7	0 4	14 22	0 46	13 32	1 47	21 0	13 5	9 14	8 57	16 54	5 46	5 30			
T 16	12 29	9 12	0s 1	5 36	3 2	7 26	2 37	26 45	3 18	21 23	0 10	21 6	0 3	14 23	0 46	13 31	1 47	21 1	13 6	9 14	8 59	16 53	5 44	5 30			
F 17	12 8	4 47	1 22	5 39	3 14	7 53	2 45	26 43	3 17	21 21	0 10	21 5	0 3	14 23	0 46	13 31	1 47	21 1	13 6	9 14	9 0	16 52	5 43	5 29			
S 18	11 47	0 11	2 36	5 46	3 24	8 19	2 54	26 42	3 16	21 18	0 10	21 4	0 3	14 24	0 46	13 31	1 47	21 2	13 6	9 14	9 1	16 52	5 42	5 29			
S 19	11 26	4n17	3 39	5 57	3 32	8 46	3 2	26 41	3 14	21 16	0 10	21 3	0 3	14 25	0 46	13 31	1 48	21 3	13 6	9 14	9 2	16 51	5 40	5 29			
M20	11 5	8 23	4 27	6 13	3 38	9 12	3 10	26 39	3 13	21 14	0 11	21 2	0 3	14 26	0 46	13 31	1 48	21 3	13 6	9 14	9 3	16 50	5 39	5 29			
T 21	10 43	11 56	4 59	6 31	3 42	9 37	3 18	26 38	3 12	21 12	0 11	21 1	0 3	14 27	0 46	13 31	1 48	21 4	13 6	9 13	9 4	16 49	5 38	5 29			
W22	10 21	14 49	5 15	6 53	3 44	10 3	3 27	26 36	3 10	21 10	0 11	20 59	0 3	14 28	0 46	13 31	1 48	21 5	13 6	9 13	9 6	16 49	5 36	5 29			
T 23	9 59	16 56	5 17	7 18	3 43	10 28	3 35	26 35	3 9	21 7	0 11	20 58	0 3	14 29	0 46	13 30	1 48	21 6	13 6	9 13	9 7	16 48	5 35	5 29			
F 24	9 37	18 14	5 4	7 43	3 40	10 52	3 43	26 33	3 8	21 5	0 11	20 57	0 3	14 29	0 46	13 30	1 48	21 6	13 6	9 13	9 8	16 47	5 33	5 29			
S 25	9 15	18 42	4 37	8 10	3 35	11 16	3 52	26 32	3 6	21 3	0 11	20 56	0 3	14 30	0 46	13 30	1 48	21 7	13 7	9 13	9 9	16 46	5 32	5 29			
S 26	8 53	18 21	4 0	8 38	3 28	11 40	4 1	26 30	3 5	21 1	0 11	20 55	0 3	14 31	0 46	13 30	1 48	21 8	13 7	9 13	9 10	16 45	5 31	5 29			
M27	8 31	17 11	3 12	9 5	3 19	12 3	4 9	26 29	3 4	20 58	0 11	20 54	0 3	14 32	0 46	13 30	1 48	21 8	13 7	9 13	9 12	16 45	5 29	5 29			
T 28	8s 8	15n17	2s16	9s31	3n 9	12n26	4n18	26n27	3n 2	20s56	0s12	20s53	0n 3	14n33	0n46	13s29	1n48	21n 9	13n 7	9n13	9n13	16n44	5s28	5n29			

Julian Day Number = 2437331.5, Delta T = 33.63 sec

Ecliptic obliquity = 23°26'31", Nutation = - 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°11'48", Lahiri = 23°18'49"

ASTRODIENST EPHEMERIS for the year 1961

geocentric

MARCH 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 34 14	10 ^h 10'27	22 ^h 56	26°R21	22 ^h 19	2 ^h 55	27 ^h 16	26 ^h 12	23°R 3	11°R14	6°R46	6 ^h 15	6 ^h 13	3 ^h 8	2 ^h 34	W 1
T 2	10 38 11	11°10'38	4 ^h 54	25°43	22°56	3°10	27°28	26°18	23 ^h 1	11 ^h 13	6 ^h 45	6°R15	6°10	3°15	2°38	T 2
F 3	10 42 7	12°10'47	17° 2	25°13	23°31	3°25	27°40	26°24	22°58	11°13	6°43	6°15	6° 7	3°22	2°42	F 3
S 4	10 46 4	13°10'55	29°18	24°49	24° 4	3°40	27°52	26°29	22°56	11°12	6°42	6°15	6° 4	3°28	2°46	S 4
S 5	10 50 0	14°11'00	11 ^h 46	24°33	24°37	3°56	28° 3	26°35	22°54	11°11	6°40	6°14	6° 0	3°35	2°50	S 5
M 6	10 53 57	15°11'04	24°27	24°23	25° 7	4°13	28°15	26°40	22°51	11°11	6°39	6°13	5°57	3°42	2°54	M 6
T 7	10 57 53	16°11'06	7 ^h 21	24°D20	25°36	4°29	28°27	26°46	22°49	11°10	6°37	6°11	5°54	3°48	2°58	T 7
W 8	11 1 50	17°11'07	20°30	24°24	26° 4	4°47	28°38	26°51	22°46	11° 9	6°36	6°10	5°51	3°55	3° 2	W 8
T 9	11 5 46	18°11'06	3 ^h 54	24°33	26°30	5° 4	28°50	26°56	22°44	11° 8	6°34	6° 9	5°48	4° 2	3° 6	T 9
F 10	11 9 43	19°11'03	17°36	24°48	26°54	5°22	29° 1	27° 2	22°42	11° 7	6°33	6°D 9	5°45	4° 8	3°10	F 10
S 11	11 13 40	20°10'59	1 ^h 35	25° 9	27°16	5°41	29°12	27° 7	22°40	11° 7	6°31	6° 9	5°41	4°15	3°13	S 11
S 12	11 17 36	21°10'53	15°50	25°34	27°37	6° 0	29°23	27°12	22°37	11° 6	6°30	6°10	5°38	4°22	3°17	S 12
M13	11 21 33	22°10'45	0 ^h 19	26° 5	27°55	6°19	29°34	27°17	22°35	11° 5	6°28	6°11	5°35	4°28	3°21	M13
T 14	11 25 29	23°10'36	14°59	26°39	28°11	6°39	29°45	27°22	22°33	11° 4	6°27	6°12	5°32	4°35	3°25	T 14
W15	11 29 26	24°10'25	29°44	27°18	28°26	6°58	29°56	27°27	22°31	11° 3	6°25	6°R13	5°29	4°42	3°29	W15
T 16	11 33 22	25°10'12	14 ^h 28	28° 1	28°38	7°19	0 ^h 7	27°32	22°29	11° 2	6°24	6°13	5°25	4°48	3°33	T 16
F 17	11 37 19	26° 9'57	29° 4	28°48	28°48	7°39	0°18	27°37	22°27	11° 1	6°22	6°12	5°22	4°55	3°37	F 17
S 18	11 41 15	27° 9'40	13 ^h 26	29°38	28°56	8° 0	0°28	27°41	22°25	11° 0	6°21	6°10	5°19	5° 2	3°40	S 18
S 19	11 45 12	28° 9'21	27°27	0 ^h 31	29° 2	8°22	0°39	27°46	22°23	10°59	6°20	6° 7	5°16	5° 8	3°44	S 19
M20	11 49 9	29° 9'00	11 ^h 8	1°27	29° 5	8°43	0°49	27°51	22°21	10°58	6°18	6° 3	5°13	5°15	3°48	M20
T 21	11 53 5	0 ^h 8'36	24° 6	2°26	29°R 6	9° 5	1° 0	27°55	22°19	10°56	6°17	6° 0	5°10	5°22	3°52	T 21
W22	11 57 2	1° 8'11	7 ^h 11	3°28	29° 4	9°28	1°10	28° 0	22°17	10°55	6°15	5°57	5° 6	5°28	3°55	W22
T 23	12 0 58	2° 7'43	19°38	4°32	29° 0	9°50	1°20	28° 4	22°15	10°54	6°14	5°55	5° 3	5°35	3°59	T 23
F 24	12 4 55	3° 7'13	1 ^h 50	5°38	28°53	10°13	1°30	28° 8	22°13	10°53	6°13	5°D54	5° 0	5°42	4° 3	F 24
S 25	12 8 51	4° 6'40	13°49	6°47	28°44	10°36	1°40	28°12	22°11	10°52	6°11	5°55	4°57	5°48	4° 6	S 25
S 26	12 12 48	5° 6'05	25°40	7°58	28°33	11° 0	1°49	28°17	22°10	10°51	6°10	5°56	4°54	5°55	4°10	S 26
M27	12 16 44	6° 5'28	7 ^h 28	9°12	28°19	11°23	1°59	28°21	22° 8	10°49	6° 9	5°58	4°50	6° 2	4°13	M27
T 28	12 20 41	7° 4'49	19°19	10°27	28° 2	11°47	2° 9	28°25	22° 6	10°48	6° 7	6° 0	4°47	6° 8	4°17	T 28
W29	12 24 37	8° 4'07	1 ^h 15	11°44	27°43	12°12	2°18	28°28	22° 5	10°47	6° 6	6°R 1	4°44	6°15	4°21	W29
T 30	12 28 34	9° 3'23	13°21	13° 3	27°22	12°36	2°27	28°32	22° 3	10°45	6° 5	6° 1	4°41	6°22	4°24	T 30
F 31	12 32 31	10 ^h 2'37	25 ^h 40	14 ^h 24	26 ^h 58	13 ^h 5	2 ^h 36	28 ^h 36	22 ^h 2	10 ^h 44	6 ^h 4	5 ^h 59	4 ^h 38	6 ^h 28	4 ^h 27	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s45	12n43	1s13	9s57	2n58	12n48	4n27	26n25	3n 1	20s54	0s12	20s52	0n 3	14n33	0n46	13s29
T 2	7 22	9 36	0 7	10 21	2 46	13 10	4 35	26 24	3 0	20 52	0 12	20 51	0 2	14 34	0 46	13 29
F 3	7 0	6 2	1n 0	10 43	2 33	13 32	4 44	26 22	2 58	20 50	0 12	20 50	0 2	14 35	0 46	13 29
S 4	6 37	2 11	2 5	11 3	2 20	13 52	4 53	26 20	2 57	20 47	0 12	20 49	0 2	14 36	0 46	13 28
S 5	6 13	1s49	3 5	11 22	2 6	14 12	5 1	26 19	2 56	20 45	0 12	20 48	0 2	14 37	0 46	13 28
M 6	5 50	5 48	3 57	11 38	1 52	14 32	5 10	26 17	2 54	20 43	0 12	20 47	0 2	14 37	0 46	13 28
T 7	5 27	9 35	4 38	11 52	1 38	14 51	5 19	26 15	2 53	20 41	0 12	20 46	0 2	14 38	0 46	13 28
W 8	5 4	12 58	5 5	12 4	1 24	15 9	5 28	26 13	2 52	20 38	0 13	20 45	0 2	14 39	0 46	13 27
T 9	4 40	15 45	5 17	12 14	1 10	15 26	5 36	26 11	2 51	20 36	0 13	20 44	0 2	14 40	0 46	13 27
F 10	4 17	17 42	5 11	12 22	0 56	15 43	5 45	26 9	2 49	20 34	0 13	20 43	0 2	14 40	0 46	13 27
S 11	3 53	18 40	4 46	12 28	0 43	15 59	5 53	26 7	2 48	20 32	0 13	20 42	0 2	14 41	0 46	13 26
S 12	3 30	18 28	4 4	12 32	0 30	16 14	6 1	26 5	2 47	20 30	0 13	20 42	0 2	14 42	0 46	13 26
M13	3 6	17 3	3 6	12 33	0 17	16 29	6 10	26 3	2 46	20 27	0 13	20 41	0 2	14 43	0 46	13 26
T 14	2 43	14 31	1 55	12 33	0 5	16 42	6 18	26 1	2 44	20 25	0 13	20 40	0 2	14 43	0 46	13 25
W15	2 19	11 0	0 36	12 31	0s 7	16 55	6 26	25 58	2 43	20 23	0 13	20 39	0 2	14 44	0 46	13 25
T 16	1 55	6 49	0s45	12 27	0 18	17 6	6 33	25 56	2 42	20 21	0 14	20 38	0 2	14 45	0 46	13 25
F 17	1 31	2 15	2 3	12 21	0 29	17 17	6 41	25 54	2 41	20 19	0 14	20 37	0 2	14 45	0 46	13 24
S 18	1 8	2n22	3 11	12 13	0 40	17 27	6 48	25 51	2 39	20 17	0 14	20 36	0 2	14 46	0 46	13 24
S 19	0 44	6 44	4 6	12 4	0 50	17 35	6 55	25 49	2 38	20 14	0 14	20 35	0 2	14 47	0 46	13 24
M20	0 20	10 38	4 46	11 53	0 59	17 43	7 2	25 46	2 37	20 12	0 14	20 35	0 2	14 47	0 46	13 23
T 21	0n 3	13 52	5 8	11 40	1 8	17 49	7 9	25 43	2 36	20 10	0 14	20 34	0 2	14 48	0 46	13 23
W22	0 27	16 20	5 15	11 26	1 17	17 54	7 15	25 41	2 35	20 8	0 14	20 33	0 2	14 48	0 46	13 23
T 23	0 51	17 57	5 6	11 10	1 25	17 58	7 21	25 38	2 34	20 6	0 15	20 32	0 2	14 49	0 46	13 22
F 24	1 14	18 43	4 43	10 53	1 33	18 1	7 26	25 35	2 32	20 4	0 15	20 31	0 2	14 49	0 46	13 22
S 25	1 38	18 36	4 9	10 34	1 40	18 2	7 31	25 32	2 31	20 2	0 15	20 31	0 2	14 50	0 46	13 21
S 26	2 2	17 40	3 24	10 14	1 47	18 2	7 35	25 29	2 30	20 0	0 15	20 30	0 2	14 51	0 46	13 21
M27	2 25	15 59	2 30	9 52	1 53	18 0	7 39	25 26	2 29	19 58	0 15	20 29	0 2	14 51	0 46	13 20
T 28	2 49	13 36	1 30	9 29	1 58	17 57	7 42	25 22	2 28	19 56	0 15	20 28	0 2	14 52	0 45	13 20
W29	3 12	10 37	0 26	9 4	2 4	17 53	7 45	25 19	2 27	19 54	0 15	20 28	0 2	14 52	0 45	13 20
T 30	3 35	7 10	0n40	8 38	2 8	17 47	7 47	25 16	2 26	19 52	0 16	20 27	0 2	14 53	0 45	13 19
F 31	3n59	3n20	1n45	8s11	2s13	17n39	7n48	25n12	2n25	19s50	0s16	20s26	0n 0	14n53	0n45	13s19

Julian Day Number = 2437359.5, Delta T = 33.66 sec
 Ecliptic obliquity = 23°26'32", Nutation = - 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°11'52", Lahiri = 23°18'53"

ASTRODIENST EPHEMERIS for the year 1961
geocentric

APRIL 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 36 27	11°19' 1'49	8°12' 12	15°46' 46	26°R33	13°26' 26	2°45' 45	28°34' 40	22°R 0	10°R43	6°R 2	5°R56	4°35' 35	6°23' 23	4°31' 31	S 1
S 2	12 40 24	12° 0'59	21° 0	17°10' 10	26°V 5	13°51' 51	2°54' 54	28°43' 43	21°59' 59	10°M41	6°11' 11	5°11' 51	4°31' 31	6°42' 42	4°34' 34	S 2
M 3	12 44 20	13° 0'07	4°11' 3	18°36' 36	25°35' 35	14°17' 17	3° 3' 3	28°47' 47	21°57' 57	10°40' 40	6° 0' 0	5°45' 45	4°28' 28	6°48' 48	4°38' 38	M 3
T 4	12 48 17	13°59'12	17°19' 19	20° 4' 4	25° 4' 4	14°42' 42	3°12' 12	28°50' 50	21°56' 56	10°39' 39	5°59' 59	5°38' 38	4°25' 25	6°55' 55	4°41' 41	T 4
W 5	12 52 13	14°58'16	0°47' 49	21°33' 33	24°30' 30	15° 8' 8	3°20' 20	28°53' 53	21°55' 55	10°37' 37	5°58' 58	5°32' 32	4°22' 22	7° 2' 2	4°44' 44	W 5
T 6	12 56 10	15°57'19	14°30' 30	23° 3' 3	23°56' 56	15°34' 34	3°29' 29	28°57' 57	21°54' 54	10°36' 36	5°57' 57	5°27' 27	4°19' 19	7° 8' 8	4°48' 48	T 6
F 7	13 0 6	16°56'19	28°20' 20	24°36' 36	23°20' 20	16° 0' 0	3°37' 37	29° 0' 0	21°52' 52	10°34' 34	5°55' 55	5°24' 24	4°16' 16	7°15' 15	4°51' 51	F 7
S 8	13 4 3	17°55'18	12°31' 19	26° 9' 9	22°44' 44	16°27' 27	3°45' 45	29° 3' 3	21°51' 51	10°33' 33	5°54' 54	5°D22' 22	4°12' 12	7°22' 22	4°54' 54	S 8
S 9	13 8 0	18°54'15	26°26' 26	27°45' 45	22° 7' 7	16°54' 54	3°53' 53	29° 6' 6	21°50' 50	10°31' 31	5°53' 53	5°22' 22	4° 9' 9	7°28' 28	4°57' 57	S 9
M10	13 11 56	19°53'10	10°38' 38	29°22' 22	21°29' 29	17°21' 21	4° 1' 1	29° 9' 9	21°49' 49	10°30' 30	5°52' 52	5°23' 23	4° 6' 6	7°35' 35	5° 0' 0	M10
T 11	13 15 53	20°52'04	24°55' 55	1°V 0	20°51' 51	17°48' 48	4° 9' 9	29°11' 11	21°48' 48	10°28' 28	5°51' 51	5°24' 24	4° 3' 3	7°42' 42	5° 3' 3	T 11
W12	13 19 49	21°50'55	9°14' 14	2°40' 40	20°14' 14	18°15' 15	4°16' 16	29°14' 14	21°47' 47	10°27' 27	5°50' 50	5°R25' 25	4° 0' 0	7°48' 48	5° 6' 6	W12
T 13	13 23 46	22°49'45	23°31' 31	4°22' 22	19°36' 36	18°42' 42	4°24' 24	29°17' 17	21°46' 46	10°25' 25	5°49' 49	5°23' 23	3°56' 56	7°55' 55	5° 9' 9	T 13
F 14	13 27 42	23°48'33	7°V44' 44	6° 5' 5	18°59' 59	19°10' 10	4°31' 31	29°19' 19	21°46' 46	10°24' 24	5°48' 48	5°20' 20	3°53' 53	8° 2' 2	5°12' 12	F 14
S 15	13 31 39	24°47'20	21°46' 46	7°50' 50	18°23' 23	19°38' 38	4°38' 38	29°22' 22	21°45' 45	10°22' 22	5°47' 47	5°14' 14	3°50' 50	8° 8' 8	5°15' 15	S 15
S 16	13 35 35	25°46'04	5°B33' 33	9°36' 36	17°48' 48	20° 6' 6	4°45' 45	29°24' 24	21°44' 44	10°21' 21	5°47' 47	5° 6' 6	3°47' 47	8°15' 15	5°18' 18	S 16
M17	13 39 32	26°44'46	19° 3' 3	11°24' 24	17°14' 14	20°34' 34	4°52' 52	29°26' 26	21°43' 43	10°19' 19	5°46' 46	4°57' 57	3°44' 44	8°22' 22	5°21' 21	M17
T 18	13 43 29	27°43'26	2°11' 13	13°13' 13	16°42' 42	21° 3' 3	4°59' 59	29°28' 28	21°43' 43	10°17' 17	5°45' 45	4°48' 48	3°41' 41	8°28' 28	5°24' 24	T 18
W19	13 47 25	28°42'05	15° 2' 2	15° 4' 4	16°11' 11	21°31' 31	5° 5' 5	29°30' 30	21°42' 42	10°16' 16	5°44' 44	4°40' 40	3°37' 37	8°35' 35	5°27' 27	W19
T 20	13 51 22	29°40'41	27° 31' 31	16°57' 57	15°42' 42	22° 0' 0	5°12' 12	29°32' 32	21°42' 42	10°14' 14	5°43' 43	4°33' 33	3°34' 34	8°42' 42	5°29' 29	T 20
F 21	13 55 18	0°B39'14	9°23' 44	18°51' 51	15°14' 14	22°29' 29	5°18' 18	29°34' 34	21°41' 41	10°13' 13	5°42' 42	4°29' 29	3°31' 31	8°48' 48	5°32' 32	F 21
S 22	13 59 15	1°37'46	21°44' 44	20°47' 47	14°49' 49	22°58' 58	5°24' 24	29°36' 36	21°41' 41	10°11' 11	5°42' 42	4°27' 27	3°28' 28	8°55' 55	5°35' 35	S 22
S 23	14 3 11	2°36'16	3°B35' 35	22°44' 44	14°26' 26	23°27' 27	5°30' 30	29°38' 38	21°40' 40	10° 9' 9	5°41' 41	4°D26' 26	3°25' 25	9° 2' 2	5°37' 37	S 23
M24	14 7 8	3°34'43	15°24' 24	24°43' 43	14° 5' 5	23°56' 56	5°36' 36	29°39' 39	21°40' 40	10° 8' 8	5°40' 40	4°27' 27	3°22' 22	9° 8' 8	5°40' 40	M24
T 25	14 11 4	4°33'08	27°16' 16	26°43' 43	13°47' 47	24°26' 26	5°42' 42	29°41' 41	21°40' 40	10° 6' 6	5°40' 40	4°27' 27	3°18' 18	9°15' 15	5°42' 42	T 25
W26	14 15 1	5°31'31	9°11' 15	28°45' 45	13°30' 30	24°55' 55	5°47' 47	29°42' 42	21°40' 40	10° 5' 5	5°39' 39	4°R27' 27	3°15' 15	9°22' 22	5°45' 45	W26
T 27	14 18 58	6°29'52	21°26' 26	0°B49' 49	13°17' 17	25°25' 25	5°52' 52	29°43' 43	21°39' 39	10° 3' 3	5°38' 38	4°26' 26	3°12' 12	9°28' 28	5°47' 47	T 27
F 28	14 22 54	7°28'11	3°B53' 53	2°53' 53	13° 5' 5	25°55' 55	5°57' 57	29°45' 45	21°39' 39	10° 1' 1	5°38' 38	4°22' 22	3° 9' 9	9°35' 35	5°50' 50	F 28
S 29	14 26 51	8°26'28	16°39' 39	4°59' 59	12°56' 56	26°25' 25	6° 2' 2	29°46' 46	21°D39' 39	10° 0' 0	5°37' 37	4°16' 16	3° 6' 6	9°42' 42	5°52' 52	S 29
S 30	14 30 47	9°B24'44	29°B45' 45	7°B 6	12°V50' 50	26°B55' 55	6°B 7	29°B47' 47	21°B39' 39	9°M58' 58	5°11' 37	4°11' 7	3°11' 2	9°B48' 48	5°B54' 54	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
S 1	4n22	0s42	2n47	7s43	2s16	17n30	7n49	25n 9	2n23	19s48	0s16	20s26	0n 0	14n53	0n45	13s18	1n50	21n25	13n 5	9n20	9n50	16n17	4s43	5n31			
S 2	4 45	4 47	3 41	7 13	2 20	17 20	7 48	25 5	2 22	19 46	0 16	20 25	0 0	14 54	0 45	13 18	1 50	21 25	13 5	9 22	9 51	16 16	4 41	5 31			
M 3	5 8	8 43	4 24	6 42	2 23	17 8	7 47	25 1	2 21	19 44	0 16	20 24	0 0	14 54	0 45	13 17	1 50	21 25	13 5	9 24	9 52	16 15	4 40	5 31			
T 4	5 31	12 17	4 55	6 9	2 25	16 54	7 45	24 57	2 20	19 43	0 16	20 24	0 0	14 55	0 45	13 17	1 50	21 25	13 4	9 27	9 53	16 14	4 39	5 32			
W 5	5 54	15 17	5 9	5 36	2 27	16 39	7 42	24 53	2 19	19 41	0 16	20 23	0s 0	14 55	0 45	13 16	1 50	21 26	13 4	9 29	9 55	16 14	4 37	5 32			
T 6	6 17	17 28	5 6	5 1	2 28	16 23	7 39	24 49	2 18	19 39	0 17	20 22	0 0	14 55	0 45	13 16	1 50	21 26	13 4	9 31	9 56	16 13	4 36	5 32			
F 7	6 39	18 40	4 46	4 25	2 29	16 5	7 34	24 45	2 17	19 37	0 17	20 22	0 0	14 56	0 45	13 15	1 50	21 26	13 4	9 32	9 57	16 12	4 35	5 32			
S 8	7 2	18 45	4 8	3 49	2 29	15 47	7 29	24 41	2 16	19 35	0 17	20 21	0 0	14 56	0 45	13 15	1 50	21 26	13 4	9 33	9 58	16 11	4 33	5 32			
S 9	7 24	17 40	3 15	3 10	2 29	15 27	7 23	24 36	2 15	19 34	0 17	20 21	0 0	14 57	0 45	13 15	1 50	21 27	13 3	9 33	9 59	16 10	4 32	5 32			
M10	7 47	15 29	2 10	2 31	2 28	15 6	7 16	24 32	2 14	19 32	0 17	20 20	0 0	14 57	0 45	13 14	1 50	21 27	13 3	9 32	10 0	16 9	4 31	5 33			
T 11	8 9	12 20	0 57	1 51	2 27	14 44	7 8	24 27	2 13	19 30	0 17	20 20	0 0	14 57	0 45	13 14	1 50	21 27	13 3	9 32	10 2	16 8	4 30	5 33			
W12	8 31	8 26	0s21	1 10	2 25	14 22	6 59	24 23	2 12	19 29	0 18	20 19	0 1	14 57	0 45	13 13	1 50	21 27	13 3	9 32	10 3	16 7	4 28	5 33			
T 13	8 53	4 3	1 36	0 27	2 23	13 59	6 50	24 18	2 11	19 27	0 18	20 19	0 1	14 58	0 45	13 13	1 50	21 27	13 3	9 32	10 4	16 6	4 27	5 33			
F 14	9 14	0n32	2 45	0n16	2 21	13 35	6 39	24 13	2 10	19 25	0 18	20 18	0 1	14 58	0 45	13 12	1 50	21 28	13 2	9 34	10 5	16 5	4 26	5 33			
S 15	9 36	5 2	3 43	1 0	2 17	13 11	6 29	24 8	2 9	19 24	0 18	20 18	0 1	14 58	0 45	13 12	1 50	21 28	13 2	9 36	10 6	16 4	4 25	5 34			
S 16	9 58	9 10	4 27	1 45	2 14	12 47	6 17	24 3	2 8	19 22	0 18	20 18	0 1	14 58	0 45	13 11	1 50	21 28	13 2	9 38	10 7	16 3	4 23	5 34			
M17	10 19	12 45	4 55	2 31	2 10	12 23	6 5	23 58	2 7	19 21	0 18	20 17	0 1	14 58	0 45	13 11	1 50	21 28	13 2	9 42	10 8	16 3	4 22	5 34			
T 18	10 40	15 36	5 6	3 18	2 5	11 59	5 53	23 52	2 6	19 19	0 19	20 17	0 1	14 59	0 45	13 10	1 50	21 28	13 1	9 45	10 10	16 2	4 21	5 34			
W19	11 1	17 36	5 2	4 6	2 0	11 35	5 40	23 47	2 5	19 18	0 19	20 16	0 1	14 59	0 45	13 10	1 50	21 28	13 1	9 48	10 11	16 1	4 20	5 34			
T 20	11 22	18 43	4 43	4 54	1 54	11 12	5 27	23 41	2 4	19 17	0 19	20 16	0 1	14 59	0 45	13 9	1 50	21 28	13 1	9 50	10 12	16 0	4 18	5 35			
F 21	11 42	18 55	4 11	5 43	1 48	10 49	5 13	23 36	2 3	19 15	0 19	20 16	0 1	14 59	0 45	13 9	1 50	21 28	13 1	9 52	10 13	15 59	4 17	5 35			
S 22	12 3	18 15	3 29	6 33	1 41	10 26	4 59	23 30	2 2	19 14	0 19	20 16	0 1	14 59	0 45	13 8	1 50	21 28	13 0	9 53	10 14	15 58	4 16	5 35			
S 23	12 23	16 48	2 38	7 23	1 34	10 4	4 45	23 24	2 1	19 13	0 19	20 15	0 1	14 59	0 45	13 7	1 50	21 28	13 0	9 53	10 15	15 57	4 15	5 35			
M24	12 43	14 37	1 40	8 14	1 26	9 43	4 31	23 18	2 0	19 11	0 20	20 15	0 2	14 59	0 45	13 7	1 50	21 28	13 0	9 53	10 17	15 56	4 14	5 35			
T 25	13 2	11 49	0 39	9 5	1 18	9 23	4 17	23 12	1 59	19 10	0 20	20 15	0 2	14 59	0 45	13 6	1 50	21 28	13 0	9 53	10 18	15 55	4 13	5 36			
W26	13 22	8 30	0n26	9 57	1 10	9 3	4 3	23 5	1 59	19 9	0 20	20 15	0 2	14 59	0 45	13 6	1 50	21 28	12 59	9 53	10 19	15 54	4 12	5 36			
T 27	13 41	4 46	1 30	10 49	1 1	8 45	3 48	22 59	1 58	19 8	0 20	20 14	0 2	14 59	0 45	13 5	1 50	21 28	12 59	9 53	10 20	15 53	4 11	5 36			
F 28	14 0	0 45	2 30	11 40	0 51	8 27	3 34	22 53	1 57	19 7	0 20	20 14	0 2	14 59	0 44	13 5	1 50	21 28	12 59	9 55	10 21	15 52	4 9	5 36			
S 29	14 19	3s23	3 25	12 32	0 42	8 11	3 20	22 46	1 56	19 6	0 20	20 14	0 2	14 59	0 44	13 4	1 50	21 28	12 59	9 57	10 22	15 51	4 8	5 37			
S 30	14n38	7s28	4n11	13n23	0s32	7n56	3n 6	22n39	1n55	19s 5	0s21	20s14	0s 2	14n59	0n44	13s 4	1n50	21n28	12n58	10n 0	10n23	15n50	4s 7	5n37			

ASTRODIENST EPHEMERIS for the year 1961

geocentric

MAY 1961

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 34 44	10°22'57	13°11'10	9°8'14	12°R46	27°25	6°12	29°348	21°139	9°R56	5°R36	3°R57	2°59	9°255	5°56	M 1
T 2	14 38 40	11°21'09	26°53	11°23	12°D44	27°56	6°16	29°48	21°39	9°M55	5°M36	3°M46	2°56	10°1	5°59	T 2
W 3	14 42 37	12°19'19	10°17'48	13°33	12°Y45	28°26	6°21	29°49	21°40	9°53	5°35	3°36	2°53	10°8	6°1	W 3
T 4	14 46 33	13°17'27	24°54	15°42	12°48	28°57	6°25	29°50	21°40	9°51	5°35	3°27	2°50	10°15	6°3	T 4
F 5	14 50 30	14°15'34	9°34	17°52	12°54	29°28	6°29	29°50	21°40	9°50	5°35	3°20	2°47	10°21	6°5	F 5
S 6	14 54 26	15°13'40	23°16	20°2	13°1	29°58	6°32	29°51	21°40	9°48	5°34	3°16	2°43	10°28	6°7	S 6
S 7	14 58 23	16°11'44	7°26	22°11	13°11	0°29	6°36	29°51	21°41	9°47	5°34	3°15	2°40	10°35	6°9	S 7
M 8	15 2 20	17°9'47	21°34	24°20	13°23	1°1	6°39	29°51	21°41	9°45	5°34	3°D15	2°37	10°41	6°11	M 8
T 9	15 6 16	18°7'48	5°38	26°28	13°37	1°32	6°43	29°51	21°42	9°43	5°33	3°R15	2°34	10°48	6°13	T 9
W10	15 10 13	19°5'48	19°37	28°34	13°53	2°3	6°46	29°R51	21°42	9°42	5°33	3°14	2°31	10°55	6°14	W10
T 11	15 14 9	20°3'47	3°Y30	0°II38	14°11	2°34	6°49	29°51	21°43	9°40	5°33	3°11	2°27	11°1	6°16	T 11
F 12	15 18 6	21°1'45	17°16	2°41	14°31	3°6	6°51	29°51	21°44	9°39	5°33	3°5	2°24	11°8	6°18	F 12
S 13	15 22 2	21°59'41	0°S54	4°42	14°52	3°38	6°54	29°51	21°44	9°37	5°33	2°57	2°21	11°15	6°19	S 13
S 14	15 25 59	22°57'35	14°19	6°40	15°16	4°9	6°56	29°50	21°45	9°35	5°32	2°46	2°18	11°21	6°21	S 14
M15	15 29 55	23°55'29	27°31	8°36	15°41	4°41	6°58	29°50	21°46	9°34	5°32	2°34	2°15	11°28	6°22	M15
T 16	15 33 52	24°53'21	10°II27	10°30	16°8	5°13	7°0	29°49	21°47	9°32	5°32	2°21	2°12	11°35	6°24	T 16
W17	15 37 49	25°51'11	23°7	12°20	16°36	5°45	7°2	29°49	21°48	9°31	5°D32	2°9	2°8	11°41	6°25	W17
T 18	15 41 45	26°49'00	5°230	14°8	17°5	6°17	7°3	29°48	21°49	9°29	5°32	1°59	2°5	11°48	6°27	T 18
F 19	15 45 42	27°46'47	17°40	15°52	17°37	6°50	7°5	29°47	21°50	9°28	5°32	1°51	2°2	11°55	6°28	F 19
S 20	15 49 38	28°44'33	29°38	17°34	18°9	7°22	7°6	29°46	21°51	9°26	5°32	1°46	1°59	12°1	6°29	S 20
S 21	15 53 35	29°42'17	11°29	19°12	18°43	7°55	7°7	29°45	21°52	9°25	5°33	1°44	1°56	12°8	6°30	S 21
M22	15 57 31	0°II39'59	23°17	20°47	19°18	8°27	7°8	29°44	21°53	9°23	5°33	1°43	1°53	12°15	6°31	M22
T 23	16 1 28	1°37'40	5°M8	22°19	19°54	9°0	7°9	29°43	21°54	9°22	5°33	1°43	1°49	12°21	6°32	T 23
W24	16 5 24	2°35'19	17°7	23°48	20°32	9°32	7°9	29°41	21°56	9°20	5°33	1°42	1°46	12°28	6°33	W24
T 25	16 9 21	3°32'57	29°20	25°13	21°11	10°5	7°9	29°40	21°57	9°19	5°33	1°41	1°43	12°35	6°34	T 25
F 26	16 13 18	4°30'33	11°251	26°35	21°50	10°38	7°R9	29°38	21°58	9°17	5°33	1°37	1°40	12°41	6°35	F 26
S 27	16 17 14	5°28'08	24°45	27°53	22°31	11°11	7°9	29°37	22°0	9°16	5°34	1°30	1°37	12°48	6°36	S 27
S 28	16 21 11	6°25'41	8°M2	29°8	23°13	11°44	7°9	29°35	22°1	9°14	5°34	1°21	1°33	12°54	6°37	S 28
M29	16 25 7	7°23'14	21°44	0°219	23°56	12°17	7°8	29°33	22°3	9°13	5°34	1°11	1°30	13°1	6°38	M29
T 30	16 29 4	8°20'45	5°M7	1°27	24°40	12°50	7°8	29°32	22°4	9°12	5°35	0°59	1°27	13°8	6°38	T 30
W31	16 33 0	9°II18'15	20°M8	2°231	25°Y24	13°24	7°M7	29°30	22°6	9°M10	5°M35	0°M48	1°M24	13°14	6°M39	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	14n56	11s17	4n43	14n14	0s22	7n41	2n52	22n32	1n54	19s4	0s21	20s14	0s2	14n59	0n44	13s3
T 2	15 14	14 35	5 1	15 4	0 11	7 28	2 39	22 26	1 53	19 3	0 21	20 14	0 2	14 59	0 44	13 3
W 3	15 32	17 7	5 0	15 54	0 1	7 16	2 26	22 18	1 52	19 2	0 21	20 14	0 2	14 59	0 44	13 2
T 4	15 50	18 39	4 42	16 42	0n10	7 5	2 12	22 11	1 51	19 1	0 21	20 14	0 2	14 59	0 44	13 2
F 5	16 7	19 2	4 6	17 29	0 21	6 56	1 59	22 4	1 51	19 0	0 22	20 14	0 2	14 59	0 44	13 1
S 6	16 24	18 14	3 15	18 15	0 31	6 47	1 47	21 57	1 50	18 59	0 22	20 14	0 3	14 59	0 44	13 1
S 7	16 41	16 17	2 13	18 59	0 41	6 39	1 35	21 49	1 49	18 59	0 22	20 14	0 3	14 59	0 44	13 0
M 8	16 58	13 21	1 2	19 41	0 52	6 33	1 22	21 41	1 48	18 58	0 22	20 14	0 3	14 58	0 44	13 0
T 9	17 14	9 39	0s13	20 22	1 2	6 28	1 11	21 34	1 47	18 57	0 22	20 14	0 3	14 58	0 44	12 59
W10	17 30	5 26	1 26	21 0	1 11	6 23	0 59	21 26	1 46	18 57	0 22	20 14	0 3	14 58	0 44	12 59
T 11	17 46	0 57	2 33	21 36	1 20	6 20	0 48	21 18	1 45	18 56	0 23	20 14	0 3	14 58	0 44	12 58
F 12	18 1	3n32	3 31	22 9	1 29	6 18	0 37	21 10	1 45	18 56	0 23	20 14	0 3	14 58	0 44	12 58
S 13	18 16	7 47	4 16	22 40	1 37	6 16	0 27	21 1	1 44	18 55	0 23	20 14	0 3	14 57	0 44	12 57
S 14	18 31	11 35	4 46	23 8	1 44	6 16	0 17	20 53	1 43	18 55	0 23	20 14	0 3	14 57	0 44	12 57
M15	18 45	14 45	5 0	23 34	1 51	6 17	0 7	20 45	1 42	18 55	0 23	20 15	0 3	14 57	0 44	12 56
T 16	18 59	17 6	4 58	23 57	1 57	6 18	0s3	20 36	1 41	18 54	0 24	20 15	0 3	14 56	0 44	12 56
W17	19 13	18 35	4 41	24 18	2 2	6 20	0 12	20 27	1 40	18 54	0 24	20 15	0 4	14 56	0 44	12 55
T 18	19 27	19 8	4 11	24 36	2 7	6 23	0 21	20 19	1 40	18 54	0 24	20 15	0 4	14 56	0 44	12 55
F 19	19 40	18 48	3 31	24 52	2 11	6 27	0 30	20 10	1 39	18 54	0 24	20 15	0 4	14 55	0 44	12 54
S 20	19 53	17 36	2 41	25 5	2 14	6 32	0 38	20 1	1 38	18 54	0 24	20 16	0 4	14 55	0 44	12 54
S 21	20 5	15 39	1 45	25 16	2 16	6 37	0 46	19 51	1 37	18 54	0 25	20 16	0 4	14 55	0 44	12 54
M22	20 18	13 3	0 45	25 24	2 17	6 43	0 54	19 42	1 36	18 53	0 25	20 16	0 4	14 54	0 44	12 53
T 23	20 29	9 55	0n18	25 31	2 18	6 50	1 2	19 33	1 36	18 54	0 25	20 17	0 4	14 54	0 44	12 53
W24	20 41	6 20	1 21	25 35	2 18	6 58	1 9	19 23	1 35	18 54	0 25	20 17	0 4	14 53	0 44	12 52
T 25	20 52	2 25	2 21	25 38	2 16	7 6	1 16	19 14	1 34	18 54	0 25	20 18	0 4	14 53	0 43	12 52
F 26	21 3	1s41	3 16	25 38	2 14	7 14	1 22	19 4	1 33	18 54	0 26	20 18	0 4	14 52	0 43	12 51
S 27	21 13	5 50	4 2	25 37	2 12	7 23	1 29	18 54	1 32	18 54	0 26	20 18	0 4	14 52	0 43	12 51
S 28	21 23	9 49	4 37	25 34	2 8	7 33	1 35	18 44	1 32	18 54	0 26	20 19	0 4	14 51	0 43	12 50
M29	21 33	13 25	4 57	25 30	2 3	7 43	1 41	18 34	1 31	18 55	0 26	20 19	0 5	14 51	0 43	12 50
T 30	21 42	16 21	5 0	25 24	1 58	7 54	1 46	18 24	1 30	18 55	0 26	20 20	0 5	14 50	0 43	12 50
W31	21n51	18s21	4n44	25n17	1n52	8n5	1s52	18n14	1n29	18s56	0s27	20s20	0s5	14n50	0n43	12s49

Julian Day Number = 2437420.5, Delta T = 33.72 sec
 Ecliptic obliquity = 23°26'31", Nutation = - 0°00'09", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°12'01", Lahiri = 23°19'01"

ASTRODIENST EPHEMERIS for the year 1961

geocentric

JUNE 1961

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 36 57	10 ^{II} 15'44	4 ³ 39	3 ⁵ 32	26 ^V 10	13 ^Ω 57	7°R 6	29°R28	22 ^Ω 8	9°R 9	5 ^{III} 36	0°R38	1 ^{III} 21	13 ^Ω 21	6 ^{III} 39	T 1
F 2	16 40 53	11°13'12	19°14	4°29	26°56	14°30	7 ^{III} 4	29 ³ 25	22° 9	9 ^{III} 7	5°36	0 ^{III} 31	1°18	13°28	6°40	F 2
S 3	16 44 50	12°10'39	3 ^{III} 47	5°21	27°43	15° 4	7° 3	29°23	22°11	9° 6	5°37	0°27	1°14	13°34	6°40	S 3
S 4	16 48 47	13° 8'06	18°12	6°10	28°31	15°38	7° 1	29°21	22°13	9° 5	5°37	0°25	1°11	13°41	6°41	S 4
M 5	16 52 43	14° 5'32	2 ^{III} 47	6°55	29°20	16°11	6°59	29°19	22°15	9° 4	5°38	0°D24	1° 8	13°48	6°41	M 5
T 6	16 56 40	15° 2'57	16°30	7°36	0 ^{III} 10	16°45	6°57	29°16	22°17	9° 2	5°38	0°R24	1° 5	13°54	6°41	T 6
W 7	17 0 36	16° 0'22	0 ^V 21	8°13	1° 0	17°19	6°55	29°14	22°19	9° 1	5°39	0°24	1° 2	14° 1	6°41	W 7
T 8	17 4 33	16°57'46	13°59	8°45	1°50	17°53	6°53	29°11	22°21	9° 0	5°39	0°21	0°59	14° 8	6°42	T 8
F 9	17 8 29	17°55'09	27°26	9°13	2°42	18°27	6°50	29° 8	22°23	8°59	5°40	0°16	0°55	14°14	6°42	F 9
S 10	17 12 26	18°52'32	10 ^{III} 41	9°37	3°34	19° 1	6°47	29° 5	22°25	8°58	5°41	0° 8	0°52	14°21	6°R42	S 10
S 11	17 16 22	19°49'55	23°44	9°56	4°27	19°35	6°44	29° 3	22°27	8°56	5°41	29 ^Ω 58	0°49	14°28	6°42	S 11
M12	17 20 19	20°47'16	6 ^{III} 34	10°11	5°20	20° 9	6°41	29° 0	22°29	8°55	5°42	29°47	0°46	14°34	6°42	M12
T 13	17 24 16	21°44'38	19°12	10°21	6°14	20°43	6°38	28°57	22°31	8°54	5°43	29°35	0°43	14°41	6°41	T 13
W14	17 28 12	22°41'58	1 ^{III} 38	10°26	7° 8	21°18	6°35	28°54	22°33	8°53	5°44	29°24	0°39	14°48	6°41	W14
T 15	17 32 9	23°39'18	13°51	10°R27	8° 3	21°52	6°31	28°50	22°36	8°52	5°45	29°15	0°36	14°54	6°41	T 15
F 16	17 36 5	24°36'37	25°54	10°24	8°58	22°26	6°27	28°47	22°38	8°51	5°46	29° 7	0°33	15° 1	6°41	F 16
S 17	17 40 2	25°33'56	7 ^Ω 47	10°16	9°54	23° 1	6°23	28°44	22°41	8°50	5°46	29° 3	0°30	15° 8	6°40	S 17
S 18	17 43 58	26°31'13	19°36	10° 3	10°50	23°36	6°19	28°41	22°43	8°49	5°47	29° 0	0°27	15°14	6°40	S 18
M19	17 47 55	27°28'30	1 ^{III} 23	9°47	11°47	24°10	6°15	28°37	22°45	8°48	5°48	29°D 0	0°24	15°21	6°39	M19
T 20	17 51 52	28°25'46	13°13	9°27	12°44	24°45	6°10	28°34	22°48	8°47	5°49	29° 1	0°20	15°27	6°39	T 20
W21	17 55 48	29°23'02	25°11	9° 4	13°41	25°20	6° 5	28°30	22°50	8°46	5°50	29°R 1	0°17	15°34	6°38	W21
T 22	17 59 45	0 ^{III} 20'16	7 ^Ω 23	8°37	14°39	25°55	6° 1	28°27	22°53	8°45	5°51	29° 1	0°14	15°41	6°37	T 22
F 23	18 3 41	1°17'30	19°54	8° 7	15°37	26°30	5°56	28°23	22°56	8°44	5°52	28°59	0°11	15°47	6°37	F 23
S 24	18 7 38	2°14'44	2 ^{III} 48	7°35	16°36	27° 5	5°50	28°19	22°58	8°44	5°53	28°55	0° 8	15°54	6°36	S 24
S 25	18 11 34	3°11'56	16° 9	7° 2	17°35	27°40	5°45	28°16	23° 1	8°43	5°55	28°50	0° 5	16° 1	6°35	S 25
M26	18 15 31	4° 9'09	29°57	6°27	18°34	28°15	5°40	28°12	23° 4	8°42	5°56	28°42	0° 1	16° 7	6°34	M26
T 27	18 19 27	5° 6'21	14 ^{III} 11	5°52	19°34	28°50	5°34	28° 8	23° 6	8°41	5°57	28°34	29 ^Ω 58	16°14	6°33	T 27
W28	18 23 24	6° 3'32	28°46	5°16	20°34	29°25	5°29	28° 4	23° 9	8°41	5°58	28°26	29°55	16°21	6°32	W28
T 29	18 27 21	7° 0'44	13 ³ 37	4°41	21°34	0 ^{III} 0	5°23	28° 0	23°12	8°40	5°59	28°19	29°52	16°27	6°31	T 29
F 30	18 31 17	7 ^{III} 57'55	28 ³ 34	4 ^{III} 7	22 ^{III} 35	0 ^{III} 36	5 ^{III} 17	27 ³ 56	23 ^Ω 15	8 ^{III} 39	6 ^{III} 0	28 ^Ω 14	29 ^Ω 49	16 ^Ω 34	6 ^{III} 30	F 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	
T 1	21n59	19s12	4n10	25n 8	1n45	8n17	1s57	18n 3	1n29	18s56	0s27	20s21	0s 5	14n49	0n43	T 1
F 2	22 8	18 46	3 20	24 59	1 37	8 29	2 2	17 53	1 28	18 57	0 27	20 21	0 5	14 48	0 43	F 2
S 3	22 15	17 6	2 16	24 48	1 28	8 42	2 7	17 42	1 27	18 57	0 27	20 22	0 5	14 48	0 43	S 3
S 4	22 23	14 21	1 4	24 36	1 18	8 55	2 11	17 32	1 26	18 58	0 27	20 22	0 5	14 47	0 43	S 4
M 5	22 30	10 46	0s11	24 24	1 8	9 8	2 15	17 21	1 26	18 58	0 28	20 23	0 5	14 47	0 43	M 5
T 6	22 36	6 37	1 24	24 10	0 57	9 21	2 19	17 10	1 25	18 59	0 28	20 24	0 5	14 46	0 43	T 6
W 7	22 42	2 11	2 32	23 56	0 45	9 35	2 23	16 59	1 24	19 0	0 28	20 24	0 5	14 45	0 43	W 7
T 8	22 48	2n18	3 29	23 42	0 33	9 49	2 27	16 48	1 23	19 1	0 28	20 25	0 5	14 45	0 43	T 8
F 9	22 54	6 36	4 15	23 27	0 19	10 4	2 30	16 37	1 23	19 2	0 28	20 25	0 6	14 44	0 43	F 9
S 10	22 59	10 30	4 45	23 11	0 5	10 18	2 33	16 25	1 22	19 2	0 29	20 26	0 6	14 43	0 43	S 10
S 11	23 3	13 51	5 0	22 55	0s 9	10 33	2 36	16 14	1 21	19 3	0 29	20 27	0 6	14 43	0 43	S 11
M12	23 7	16 29	4 5	0 22 39	0 24	10 48	2 39	16 2	1 20	19 4	0 29	20 27	0 6	14 42	0 43	M12
T 13	23 11	18 16	4 45	0 22 23	0 40	11 3	2 41	15 51	1 20	19 5	0 29	20 28	0 6	14 41	0 43	T 13
W14	23 14	19 9	4 16	22 6	0 56	11 19	2 44	15 39	1 19	19 6	0 30	20 29	0 6	14 40	0 43	W14
T 15	23 17	19 8	3 36	21 50	1 12	11 34	2 46	15 27	1 18	19 8	0 30	20 30	0 6	14 39	0 43	T 15
F 16	23 20	18 14	2 47	21 34	1 29	11 50	2 48	15 15	1 17	19 9	0 30	20 30	0 6	14 39	0 43	F 16
S 17	23 22	16 32	1 51	21 18	1 45	12 6	2 50	15 3	1 17	19 10	0 30	20 31	0 6	14 38	0 43	S 17
S 18	23 24	14 9	0 50	21 2	2 2	12 21	2 52	14 51	1 16	19 11	0 30	20 32	0 6	14 37	0 43	S 18
M19	23 25	11 11	0n13	20 46	2 19	12 37	2 53	14 39	1 15	19 12	0 31	20 33	0 7	14 36	0 43	M19
T 20	23 26	7 46	1 15	20 31	2 35	12 53	2 54	14 27	1 15	19 14	0 31	20 34	0 7	14 35	0 43	T 20
W21	23 26	3 59	2 16	20 17	2 51	13 9	2 56	14 14	1 14	19 15	0 31	20 34	0 7	14 35	0 43	W21
T 22	23 26	0s 1	3 11	20 3	3 7	13 25	2 57	14 2	1 13	19 16	0 31	20 35	0 7	14 34	0 43	T 22
F 23	23 26	4 6	3 58	19 50	3 22	13 41	2 58	13 49	1 13	19 18	0 31	20 36	0 7	14 33	0 43	F 23
S 24	23 25	8 8	4 36	19 38	3 36	13 57	2 58	13 37	1 12	19 19	0 32	20 37	0 7	14 32	0 43	S 24
S 25	23 24	11 54	4 59	19 27	3 49	14 13	2 59	13 24	1 11	19 21	0 32	20 38	0 7	14 31	0 43	S 25
M26	23 23	15 9	5 6	19 17	4 1	14 29	2 59	13 11	1 10	19 22	0 32	20 39	0 7	14 30	0 42	M26
T 27	23 21	17 37	4 55	19 8	4 11	14 45	3 0	12 58	1 10	19 24	0 32	20 39	0 7	14 29	0 42	T 27
W28	23 18	19 1	4 25	19 0	4 21	15 0	3 0	12 45	1 9	19 26	0 32	20 40	0 7	14 28	0 42	W28
T 29	23 15	19 9	3 36	18 53	4 29	15 16	3 0	12 32	1 8	19 27	0 32	20 41	0 7	14 27	0 42	T 29
F 30	23n12	17s57	2n33	18n48	4s35	15n31	3s 0	12n19	1n 8	19s29	0s33	20s42	0s 8	14n26	0n42	F 30

Julian Day Number = 2437451.5, Delta T = 33.76 sec

Ecliptic obliquity = 23°26'31", Nutation = - 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°12'05", Lahiri = 23°19'05"

ASTRODIENST EPHEMERIS for the year 1961

geocentric

JULY 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 14	8°55'06	13°29	3°R35	23°36	1°11	5°R11	27°R52	23°18	8°R39	6°2	28°R11	29°45	16°41	6°R29	S 1
S 2	18 39 10	9°52'18	28°15	3°6	24°37	1°47	5°4	27°348	23°21	8°38	6°3	28°D10	29°42	16°47	6°28	S 2
M 3	18 43 7	10°49'29	12°46	2°39	25°39	2°22	4°58	27°44	23°24	8°38	6°4	28°11	29°39	16°54	6°27	M 3
T 4	18 47 3	11°46'40	26°58	2°16	26°41	2°58	4°52	27°40	23°27	8°37	6°6	28°12	29°36	17°1	6°25	T 4
W 5	18 51 0	12°43'52	10°51	1°56	27°43	3°33	4°45	27°35	23°30	8°36	6°7	28°R13	29°33	17°7	6°24	W 5
T 6	18 54 56	13°41'04	24°25	1°40	28°45	4°9	4°38	27°31	23°33	8°36	6°8	28°12	29°30	17°14	6°22	T 6
F 7	18 58 53	14°38'17	7°42	1°29	29°48	4°45	4°32	27°27	23°36	8°36	6°10	28°10	29°26	17°21	6°21	F 7
S 8	19 2 50	15°35'30	20°42	1°23	0°1151	5°20	4°25	27°23	23°39	8°35	6°11	28°6	29°23	17°27	6°19	S 8
S 9	19 6 46	16°32'43	3°1128	1°D21	1°54	5°56	4°18	27°18	23°42	8°35	6°12	28°0	29°20	17°34	6°18	S 9
M10	19 10 43	17°29'57	16°0	1°25	2°58	6°32	4°11	27°14	23°45	8°34	6°14	27°54	29°17	17°40	6°16	M10
T 11	19 14 39	18°27'11	28°22	1°33	4°1	7°8	4°4	27°10	23°49	8°34	6°15	27°46	29°14	17°47	6°15	T 11
W12	19 18 36	19°24'25	10°32	1°47	5°5	7°44	3°56	27°5	23°52	8°34	6°17	27°40	29°11	17°54	6°13	W12
T 13	19 22 32	20°21'40	22°34	2°6	6°9	8°20	3°49	27°1	23°55	8°33	6°18	27°34	29°7	18°0	6°11	T 13
F 14	19 26 29	21°18'54	4°129	2°31	7°13	8°57	3°42	26°57	23°58	8°33	6°20	27°30	29°4	18°7	6°9	F 14
S 15	19 30 25	22°16'09	16°18	3°1	8°18	9°33	3°34	26°52	24°2	8°33	6°22	27°28	29°1	18°14	6°8	S 15
S 16	19 34 22	23°13'25	28°5	3°36	9°23	10°9	3°27	26°48	24°5	8°33	6°23	27°D27	28°58	18°20	6°6	S 16
M17	19 38 19	24°10'40	9°112	4°17	10°27	10°45	3°19	26°43	24°8	8°33	6°25	27°28	28°55	18°27	6°4	M17
T 18	19 42 15	25°7'56	21°43	5°3	11°32	11°22	3°12	26°39	24°12	8°33	6°26	27°29	28°51	18°34	6°2	T 18
W19	19 46 12	26°5'12	3°12	5°54	12°38	11°58	3°4	26°35	24°15	8°33	6°28	27°31	28°48	18°40	6°0	W19
T 20	19 50 8	27°2'28	15°53	6°50	13°43	12°35	2°56	26°30	24°18	8°33	6°30	27°32	28°45	18°47	5°58	T 20
F 21	19 54 5	27°59'44	28°23	7°51	14°49	13°11	2°49	26°26	24°22	8°D33	6°31	27°R33	28°42	18°54	5°55	F 21
S 22	19 58 1	28°57'00	11°114	8°58	15°55	13°48	2°41	26°21	24°25	8°33	6°33	27°32	28°39	19°0	5°53	S 22
S 23	20 1 58	29°54'17	24°30	10°9	17°0	14°25	2°33	26°17	24°29	8°33	6°35	27°30	28°36	19°7	5°51	S 23
M24	20 5 54	0°51'35	8°115	11°25	18°7	15°1	2°25	26°12	24°32	8°33	6°36	27°28	28°32	19°14	5°49	M24
T 25	20 9 51	1°48'52	22°27	12°46	19°13	15°38	2°18	26°8	24°36	8°33	6°38	27°24	28°29	19°20	5°47	T 25
W26	20 13 48	2°46'10	7°3	14°11	20°19	16°15	2°10	26°4	24°39	8°33	6°40	27°21	28°26	19°27	5°44	W26
T 27	20 17 44	3°43'29	22°1	15°41	21°26	16°52	2°2	25°59	24°43	8°33	6°42	27°18	28°23	19°33	5°42	T 27
F 28	20 21 41	4°40'48	7°9	17°15	22°33	17°29	1°54	25°55	24°46	8°33	6°43	27°16	28°20	19°40	5°40	F 28
S 29	20 25 37	5°38'08	22°19	18°53	23°40	18°6	1°47	25°50	24°50	8°34	6°45	27°D15	28°17	19°47	5°37	S 29
S 30	20 29 34	6°35'29	7°22	20°35	24°47	18°43	1°39	25°46	24°54	8°34	6°47	27°15	28°13	19°53	5°35	S 30
M31	20 33 30	7°32'51	22°10	22°21	25°1154	19°120	1°31	25°342	24°557	8°34	6°49	27°16	28°10	20°0	5°32	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	decl	lat
S 1	23n 9	15s31	1n18	18n44	4s40	15n47	2s59	12n 6	1n 7	19s30	0s33	20s43	0s 8	14n25	0n42	12s41	1n48	21n 1	12n39	12n 6	11n33	14n44	3s39	5n54			
S 2	23 4	12 5	0s 0	18 41	4 43	16 2	2 59	11 53	1 6	19 32	0 33	20 44	0 8	14 24	0 42	12 40	1 48	21 1	12 39	12 7	11 35	14 42	3 39	5 54			
M 3	23 0	7 58	1 18	18 40	4 45	16 17	2 58	11 39	1 6	19 34	0 33	20 45	0 8	14 23	0 42	12 40	1 48	21 0	12 39	12 6	11 36	14 41	3 39	5 55			
T 4	22 55	3 29	2 29	18 40	4 46	16 32	2 58	11 26	1 5	19 36	0 33	20 46	0 8	14 22	0 42	12 40	1 48	20 59	12 39	12 6	11 37	14 40	3 39	5 55			
W 5	22 50	1n 4	3 30	18 41	4 44	16 47	2 57	11 12	1 4	19 37	0 34	20 47	0 8	14 21	0 42	12 40	1 48	20 59	12 39	12 6	11 38	14 39	3 40	5 55			
T 6	22 44	5 28	4 18	18 44	4 42	17 1	2 56	10 58	1 3	19 39	0 34	20 47	0 8	14 20	0 42	12 40	1 48	20 58	12 38	12 6	11 39	14 38	3 40	5 55			
F 7	22 38	9 30	4 50	18 48	4 38	17 15	2 55	10 45	1 3	19 41	0 34	20 48	0 8	14 19	0 42	12 40	1 48	20 57	12 38	12 7	11 40	14 37	3 40	5 56			
S 8	22 32	12 59	5 7	18 54	4 32	17 30	2 54	10 31	1 2	19 43	0 34	20 49	0 8	14 18	0 42	12 40	1 48	20 56	12 38	12 8	11 41	14 35	3 41	5 56			
S 9	22 25	15 48	5 8	19 0	4 26	17 43	2 53	10 17	1 1	19 45	0 34	20 50	0 8	14 17	0 42	12 40	1 48	20 56	12 38	12 10	11 42	14 34	3 41	5 56			
M10	22 18	17 49	4 54	19 8	4 18	17 57	2 51	10 3	1 1	19 46	0 35	20 51	0 8	14 16	0 42	12 40	1 48	20 55	12 37	12 12	11 44	14 33	3 41	5 56			
T 11	22 10	18 59	4 27	19 16	4 10	18 10	2 50	9 49	1 0	19 48	0 35	20 52	0 9	14 15	0 42	12 40	1 48	20 54	12 37	12 15	11 45	14 32	3 42	5 56			
W12	22 2	19 14	3 48	19 26	4 0	18 23	2 49	9 35	0 59	19 50	0 35	20 53	0 9	14 14	0 42	12 40	1 48	20 53	12 37	12 17	11 46	14 31	3 42	5 57			
T 13	21 54	18 37	2 59	19 36	3 49	18 36	2 47	9 21	0 59	19 52	0 35	20 54	0 9	14 13	0 42	12 40	1 48	20 53	12 37	12 19	11 47	14 29	3 43	5 57			
F 14	21 45	17 10	2 2	19 47	3 38	18 48	2 45	9 7	0 58	19 54	0 35	20 55	0 9	14 12	0 42	12 39	1 48	20 52	12 37	12 20	11 48	14 28	3 43	5 57			
S 15	21 36	14 59	1 1	19 58	3 26	19 0	2 43	8 53	0 57	19 56	0 35	20 56	0 9	14 11	0 42	12 39	1 47	20 51	12 36	12 21	11 49	14 27	3 43	5 57			
S 16	21 27	12 12	0n 3	20 10	3 14	19 12	2 41	8 38	0 57	19 58	0 36	20 57	0 9	14 9	0 42	12 39	1 47	20 50	12 36	12 21	11 50	14 26	3 44	5 58			
M17	21 17	8 55	1 8	20 22	3 1	19 23	2 39	8 24	0 56	20 0	0 36	20 58	0 9	14 8	0 42	12 39	1 47	20 49	12 36	12 21	11 51	14 25	3 44	5 58			
T 18	21 7	5 16	2 9	20 33	2 47	19 34	2 37	8 9	0 55	20 2	0 36	20 59	0 9	14 7	0 42	12 40	1 47	20 49	12 36	12 21	11 52	14 23	3 45	5 58			
W19	20 56	1 22	3 6	20 45	2 34	19 45	2 35	7 55	0 55	20 3	0 36	21 0	0 9	14 6	0 42	12 40	1 47	20 48	12 36	12 20	11 53	14 22	3 46	5 58			
T 20	20 45	2s38	3 55	20 57	2 20	19 55	2 33	7 40	0 54	20 5	0 36	21 1	0 9	14 5	0 42	12 40	1 47	20 47	12 35	12 20	11 55	14 21	3 46	5 58			
F 21	20 34	6 37	4 35	21 7	2 5	20 5	2 31	7 26	0 53	20 7	0 36	21 1	0 9	14 4	0 42	12 40	1 47	20 46	12 35	12 20	11 56	14 20	3 47	5 58			
S 22	20 22	10 25	5 2	21 18	1 51	20 14	2 28	7 11	0 53	20 9	0 36	21 2	0 10	14 3	0 42	12 40	1 47	20 45	12 35	12 20	11 57	14 18	3 47	5 59			
S 23	20 10	13 49	5 14	21 27	1 37	20 23	2 26	6 56	0 52	20 11	0 37	21 3	0 10	14 1	0 42	12 40	1 47	20 45	12 35	12 20	11 58	14 17	3 48	5 59			
M24	19 58	16 36	5 9	21 35	1 22	20 32	2 23	6 41	0 51	20 13	0 37	21 4	0 10	14 0	0 42	12 40	1 47	20 44	12 35	12 21	11 59	14 16	3 49	5 59			
T 25	19 45	18 29	4 45	21 42	1 8	20 40	2 21	6 27	0 51	20 15	0 37	21 5	0 10	13 59	0 42	12 40	1 47	20 43	12 35	12 22	12 0	14 15	3 49	5 59			
W26	19 33	19 13	4 2	21 48	0 54	20 48	2 18	6 12	0 50	20 17	0 37	21 6	0 10	13 58	0 42	12 40	1 47	20 42	12 34	12 24	12 1	14 13	3 50	5 59			
T 27	19 19	18 39	3 2	21 52	0 40	20 55	2 15	5 57	0 49	20 19	0 37	21 7	0 10	13 57	0 42	12 40	1 47	20 41	12 34	12 25	12 2	14 12	3 51	5 59			
F 28	19 6	16 44	1 49	21 54	0 26	21 2	2 13	5 42	0 49	20 21	0 37	21 8	0 10	13 55	0 42	12 40	1 47	20 41	12 34	12 25	12 3	14 11	3 51	6 0			
S 29	18 52	13 39	0 27	21 54	0 13	21 8	2 10	5 27	0 48	20 22	0 37	21 9	0 10	13 54	0 42	12 40	1 47	20 40	12 34	12 26	12 4	14 10	3 52	6 0			
S 30	18 38	9 40	0s56	21 51	0 0	21 14	2 7	5 12	0 47	20 24	0 37	21 10	0 10	13 53	0 42	12 41	1 47	20 39	12 34	12 26	12 6	14 8	3 53	6 0			
M31	18n23	5s 9	2s13	21n47	0n12	21n19	2s 4	4n56	0n47	20s26	0s38	21s10	0s10	13n52	0n42	12s41	1n47	20n38	12n34	12n25	12n 7	14n 7	3s54	6n 0			

ASTRODIENST EPHEMERIS for the year 1961

geocentric

AUGUST 1961

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 37 27	8♌30'14	6♋37	24♉10	27♊1	19♋57	1°R23	25°R38	25♌1	8♍35	6♎51	27♏17	28♌7	20♌7	5°R30	T 1
W 2	20 41 23	9°27'38	20°41	26°2	28°9	20°34	1♌16	25♉33	25°4	8°35	6°53	27°19	28°4	20°13	5♋27	W 2
T 3	20 45 20	10°25'03	4♉20	27°57	29°16	21°12	1°8	25°29	25°8	8°35	6°54	27°R19	28°1	20°20	5°25	T 3
F 4	20 49 17	11°22'29	17°35	29°54	0♉24	21°49	1°1	25°25	25°12	8°36	6°56	27°19	27°57	20°27	5°22	F 4
S 5	20 53 13	12°19'57	0♊30	1♌53	1°32	22°26	0°53	25°21	25°15	8°36	6°58	27°19	27°54	20°33	5°20	S 5
S 6	20 57 10	13°17'26	13°6	3°54	2°40	23°4	0°46	25°17	25°19	8°37	7°0	27°17	27°51	20°40	5°17	S 6
M 7	21 1 6	14°14'56	25°27	5°55	3°48	23°41	0°38	25°13	25°23	8°37	7°2	27°16	27°48	20°47	5°14	M 7
T 8	21 5 3	15°12'27	7♉36	7°58	4°57	24°19	0°31	25°9	25°26	8°38	7°4	27°14	27°45	20°53	5°12	T 8
W 9	21 8 59	16°10'00	19°36	10°2	6°5	24°56	0°24	25°5	25°30	8°38	7°6	27°12	27°42	21°0	5°9	W 9
T 10	21 12 56	17°7'34	1♌29	12°6	7°14	25°34	0°17	25°1	25°34	8°39	7°8	27°11	27°38	21°7	5°6	T 10
F 11	21 16 52	18°5'09	13°18	14°9	8°22	26°12	0°10	24°57	25°38	8°40	7°10	27°10	27°35	21°13	5°3	F 11
S 12	21 20 49	19°2'45	25°5	16°13	9°31	26°49	0°3	24°53	25°41	8°40	7°12	27°D10	27°32	21°20	5°1	S 12
S 13	21 24 46	20°0'22	6♋53	18°16	10°40	27°27	29♉56	24°49	25°45	8°41	7°14	27°10	27°29	21°26	4°58	S 13
M14	21 28 42	20°58'00	18°43	20°18	11°49	28°5	29°49	24°45	25°49	8°42	7°16	27°10	27°26	21°33	4°55	M14
T 15	21 32 39	21°55'40	0♌38	22°20	12°58	28°43	29°42	24°42	25°53	8°43	7°18	27°11	27°22	21°40	4°52	T 15
W16	21 36 35	22°53'20	12°42	24°20	14°8	29°21	29°36	24°38	25°56	8°44	7°20	27°11	27°19	21°46	4°49	W16
T 17	21 40 32	23°51'02	24°57	26°20	15°17	29°59	29°29	24°34	26°0	8°44	7°22	27°12	27°16	21°53	4°47	T 17
F 18	21 44 28	24°48'44	7♍28	28°18	16°27	0♌37	29°23	24°31	26°4	8°45	7°24	27°12	27°13	22°0	4°44	F 18
S 19	21 48 25	25°46'28	20°18	0♋15	17°36	1°15	29°17	24°27	26°8	8°46	7°26	27°12	27°10	22°6	4°41	S 19
S 20	21 52 21	26°44'13	3♊29	2°11	18°46	1°53	29°10	24°24	26°11	8°47	7°28	27°12	27°7	22°13	4°38	S 20
M21	21 56 18	27°41'59	17°5	4°6	19°56	2°32	29°4	24°21	26°15	8°48	7°30	27°12	27°3	22°20	4°35	M21
T 22	22 0 15	28°39'46	1♉7	5°59	21°6	3°10	28°59	24°17	26°19	8°49	7°32	27°12	27°0	22°26	4°32	T 22
W23	22 4 11	29°37'34	15°34	7°51	22°16	3°48	28°53	24°14	26°23	8°50	7°34	27°12	26°57	22°33	4°29	W23
T 24	22 8 8	0♋35'24	0♌22	9°41	23°26	4°27	28°47	24°11	26°26	8°51	7°36	27°13	26°54	22°40	4°26	T 24
F 25	22 12 4	1°33'15	15°25	11°31	24°36	5°5	28°42	24°8	26°30	8°52	7°38	27°13	26°51	22°46	4°23	F 25
S 26	22 16 1	2°31'07	0♋37	13°18	25°46	5°44	28°37	24°5	26°34	8°53	7°40	27°R13	26°48	22°53	4°20	S 26
S 27	22 19 57	3°29'01	15°46	15°5	26°57	6°22	28°32	24°2	26°37	8°55	7°42	27°13	26°44	22°59	4°18	S 27
M28	22 23 54	4°26'56	0♋44	16°50	28°7	7°1	28°27	23°59	26°41	8°56	7°44	27°12	26°41	23°6	4°15	M28
T 29	22 27 50	5°24'53	15°24	18°34	29°18	7°39	28°22	23°56	26°45	8°57	7°46	27°11	26°38	23°13	4°12	T 29
W30	22 31 47	6°22'51	29°39	20°17	0♌29	8°18	28°17	23°54	26°49	8°58	7°48	27°10	26°35	23°19	4°9	W30
T 31	22 35 43	7♋20'52	13♉27	21♋58	1♌39	8♌57	28♉13	23♉51	26♌52	8♍59	7♋50	27♌9	26♌32	23♌26	4♋6	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
T 1	18n 8	0s27	3s21	21n40	0n23	21n24	2s 1	4n41	0n46	20s28	0s38	21s11	0s10	13n51	0n42	12s41	1n46	20n37	12n34	12n25	12n 8	14n 6	3s55	6n 0	
W 2	17 53	4n 9	4 14	21 30	0 34	21 28	1 58	4 26	0 45	20 30	0 38	21 12	0 10	13 49	0 42	12 41	1 46	20 37	12 34	12 24	12 9	14 5	3 55	6 0	
T 3	17 38	8 23	4 52	21 18	0 45	21 32	1 55	4 11	0 45	20 32	0 38	21 13	0 11	13 48	0 42	12 41	1 46	20 36	12 34	12 24	12 10	14 3	3 56	6 0	
F 4	17 22	12 5	5 12	21 4	0 54	21 35	1 52	3 55	0 44	20 33	0 38	21 14	0 11	13 47	0 42	12 41	1 46	20 35	12 33	12 24	12 11	14 2	3 57	6 0	
S 5	17 6	15 6	5 16	20 46	1 3	21 38	1 48	3 40	0 44	20 35	0 38	21 15	0 11	13 46	0 42	12 42	1 46	20 34	12 33	12 24	12 12	14 1	3 58	6 0	
S 6	16 50	17 20	5 5	20 26	1 11	21 40	1 45	3 25	0 43	20 37	0 38	21 16	0 11	13 44	0 42	12 42	1 46	20 33	12 33	12 25	12 13	14 0	3 59	6 1	
M 7	16 33	18 43	4 39	20 3	1 18	21 41	1 42	3 9	0 42	20 38	0 38	21 16	0 11	13 43	0 42	12 42	1 46	20 33	12 33	12 25	12 14	13 58	4 0	6 1	
T 8	16 17	19 12	4 2	19 38	1 25	21 42	1 39	2 54	0 42	20 40	0 38	21 17	0 11	13 42	0 42	12 42	1 46	20 32	12 33	12 26	12 15	13 57	4 0	6 1	
W 9	16 0	18 49	3 14	19 11	1 30	21 43	1 35	2 38	0 41	20 42	0 39	21 18	0 11	13 41	0 42	12 43	1 46	20 31	12 33	12 27	12 17	13 56	4 1	6 1	
T 10	15 42	17 35	2 18	18 41	1 35	21 43	1 32	2 23	0 40	20 43	0 39	21 19	0 11	13 39	0 42	12 43	1 46	20 30	12 33	12 27	12 18	13 54	4 2	6 1	
F 11	15 25	15 37	1 16	18 9	1 38	21 42	1 29	2 7	0 40	20 45	0 39	21 20	0 11	13 38	0 42	12 43	1 46	20 29	12 33	12 27	12 19	13 53	4 3	6 1	
S 12	15 7	12 59	0 12	17 35	1 41	21 41	1 25	1 52	0 39	20 47	0 39	21 20	0 11	13 37	0 42	12 43	1 46	20 29	12 33	12 27	12 20	13 52	4 4	6 1	
S 13	14 49	9 49	0n54	17 0	1 44	21 39	1 22	1 36	0 38	20 48	0 39	21 21	0 11	13 36	0 42	12 44	1 46	20 28	12 33	12 27	12 21	13 51	4 5	6 1	
M14	14 31	6 16	1 57	16 23	1 45	21 37	1 18	1 20	0 38	20 50	0 39	21 22	0 11	13 34	0 42	12 44	1 46	20 27	12 33	12 27	12 22	13 49	4 6	6 1	
T 15	14 12	2 26	2 56	15 44	1 46	21 34	1 15	1 5	0 37	20 51	0 39	21 23	0 11	13 33	0 42	12 44	1 46	20 26	12 33	12 27	12 23	13 48	4 7	6 1	
W16	13 53	1s32	3 47	15 4	1 46	21 30	1 12	0 49	0 36	20 53	0 39	21 23	0 12	13 32	0 42	12 45	1 46	20 25	12 33	12 27	12 24	13 47	4 8	6 1	
T 17	13 34	5 29	4 29	14 23	1 45	21 26	1 8	0 33	0 36	20 54	0 39	21 24	0 12	13 31	0 42	12 45	1 46	20 25	12 33	12 27	12 25	13 45	4 9	6 1	
F 18	13 15	9 17	4 59	13 41	1 44	21 22	1 5	0 18	0 35	20 55	0 39	21 25	0 12	13 29	0 42	12 45	1 45	20 24	12 33	12 27	12 26	13 44	4 10	6 1	
S 19	12 56	12 45	5 16	12 58	1 42	21 16	1 1	0 2	0 35	20 57	0 39	21 25	0 12	13 28	0 42	12 46	1 45	20 23	12 33	12 27	12 27	13 43	4 11	6 1	
S 20	12 36	15 41	5 16	12 15	1 40	21 11	0 58	0s14	0 34	20 58	0 39	21 26	0 12	13 27	0 42	12 46	1 45	20 22	12 33	12 27	12 29	13 41	4 12	6 1	
M21	12 16	17 51	4 59	11 31	1 37	21 4	0 54	0 30	0 33	20 59	0 39	21 27	0 12	13 26	0 42	12 46	1 45	20 21	12 33	12 27	12 30	13 40	4 13	6 1	
T 22	11 56	19 2	4 24	10 46	1 33	20 57	0 51	0 46	0 33	21 1	0 40	21 27	0 12	13 24	0 42	12 47	1 45	20 21	12 33	12 27	12 31	13 39	4 14	6 1	
W23	11 36	19 2	3 32	10 1	1 29	20 50	0 47	1 1	0 32	21 2	0 40	21 28	0 12	13 23	0 42	12 47	1 45	20 20	12 33	12 27	12 32	13 37	4 15	6 1	
T 24	11 16	17 44	2 24	9 15	1 25	20 42	0 44	1 17	0 31	21 3	0 40	21 29	0 12	13 22	0 42	12 47	1 45	20 19	12 33	12 26	12 33	13 36	4 16	6 1	
F 25	10 55	15 11	1 5	8 29	1 20	20 33	0 40	1 33	0 31	21 4	0 40	21 29	0 12	13 20	0 42	12 48	1 45	20 18	12 33	12 26	12 34	13 35	4 18	6 1	
S 26	10 35	11 33	0s19	7 43	1 15	20 24	0 37	1 49	0 30	21 5	0 40	21 30	0 12	13 19	0 42	12 48	1 45	20 18	12 33	12 26	12 35	13 34	4 19	6 1	
S 27	10 14	7 10	1 41	6 57	1 10	20 14	0 33	2 5	0 29	21 6	0 40	21 31	0 12	13 18	0 42	12 49	1 45	20 17	12 33	12 26	12 36	13 32	4 20	6 1	
M28	9 53	2 24	2 56	6 11	1 4	20 3	0 30	2 21	0 29	21 8	0 40	21 31	0 12	13 17	0 42	12 49	1 45	20 16	12 33	12 27	12 37	13 31	4 21	6 1	
T 29	9 32	2n25	3 57	5 25	0 58	19 52	0 26	2 36	0 28	21 9	0 40	21 32	0 13	13 15	0 42	12 50	1 45	20 15	12 33	12 27	12 38	13 29	4 22	6 1	
W30	9 10	6 57	4 42	4 39	0 52	19 41	0 23	2 52	0 28	21 10	0 40	21 32	0 13	13 14	0 42	12 50	1 45	20 15	12 33	12 27	12 39	13 28	4 23	6 1	
T 31	8n49	10n58	5s 8	3n53	0n46	19n29	0s19	3s 8	0n27	21s10	0s40	21s33	0s13	13n13	0n42	12s50	1n45	20n14	12n33	12n28	12n40	13n27	4s24	6n0	

ASTRODIENST EPHEMERIS for the year 1961

geocentric

SEPTEMBER 1961

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 39 40	8 ^h 18'54"	26 ^h 48'	23 ^h 38'	2 ^h 50'	9 ^h 36'	28°R 8	23°R49	26 ^h 56'	9 ^h 11'	7 ^h 52'	27°R 9	26 ^h 28'	23 ^h 33'	4°R 3	F 1
S 2	22 43 37	9°16'59"	9 ^h 11'44"	25°17'	4° 1'	10°14'	28 ^h 34'	23 ^h 34'	27° 0'	9° 2'	7°54'	27°D 8	26°25'	23°39'	4 ^h 0'	S 2
S 3	22 47 33	10°15'05"	22°18'	26°54'	5°13'	10°53'	28° 0'	23°44'	27° 3'	9° 3'	7°56'	27 ^h 09'	26°22'	23°46'	3°57'	S 3
M 4	22 51 30	11°13'13"	4 ^h 34'	28°31'	6°24'	11°32'	27°56'	23°41'	27° 7'	9° 5'	7°59'	27°10'	26°19'	23°53'	3°54'	M 4
T 5	22 55 26	12°11'24"	16°37'	0 ^h 06'	7°35'	12°11'	27°53'	23°39'	27°11'	9° 6'	8° 1'	27°11'	26°16'	23°59'	3°51'	T 5
W 6	22 59 23	13° 9'36"	28°31'	1°40'	8°46'	12°51'	27°49'	23°37'	27°14'	9° 8'	8° 3'	27°12'	26°13'	24° 6'	3°48'	W 6
T 7	23 3 19	14° 7'50"	10 ^h 09'	3°12'	9°58'	13°30'	27°46'	23°35'	27°18'	9° 9'	8° 5'	27°13'	26° 9'	24°13'	3°46'	T 7
F 8	23 7 16	15° 6'06"	22° 6'	4°44'	11° 9'	14° 9'	27°43'	23°33'	27°22'	9°10'	8° 7'	27°R14	26° 6'	24°19'	3°43'	F 8
S 9	23 11 12	16° 4'24"	3 ^h 11'54"	6°14'	12°21'	14°48'	27°40'	23°31'	27°25'	9°12'	8° 9'	27°14'	26° 3'	24°26'	3°40'	S 9
S 10	23 15 9	17° 2'44"	15°45'	7°43'	13°33'	15°28'	27°37'	23°30'	27°29'	9°13'	8°11'	27°13'	26° 0'	24°32'	3°37'	S 10
M11	23 19 6	18° 1'05"	27°43'	9°11'	14°45'	16° 7'	27°35'	23°28'	27°32'	9°15'	8°13'	27°11'	25°57'	24°39'	3°34'	M11
T 12	23 23 2	18°59'28"	9 ^h 48'	10°38'	15°57'	16°46'	27°32'	23°26'	27°36'	9°17'	8°15'	27° 8'	25°54'	24°46'	3°31'	T 12
W13	23 26 59	19°57'53"	22° 3'	12° 4'	17° 9'	17°26'	27°30'	23°25'	27°39'	9°18'	8°17'	27° 4'	25°50'	24°52'	3°29'	W13
T 14	23 30 55	20°56'20"	4 ^h 11'29"	13°28'	18°21'	18° 5'	27°28'	23°23'	27°43'	9°20'	8°19'	27° 1'	25°47'	24°59'	3°26'	T 14
F 15	23 34 52	21°54'49"	17° 9'	14°51'	19°33'	18°45'	27°26'	23°22'	27°47'	9°21'	8°21'	26°57'	25°44'	25° 6'	3°23'	F 15
S 16	23 38 48	22°53'19"	0 ^h 07'3	16°13'	20°45'	19°25'	27°25'	23°21'	27°50'	9°23'	8°23'	26°54'	25°41'	25°12'	3°21'	S 16
S 17	23 42 45	23°51'50"	13°14'	17°33'	21°57'	20° 4'	27°23'	23°20'	27°53'	9°25'	8°25'	26°53'	25°38'	25°19'	3°18'	S 17
M18	23 46 41	24°50'24"	26°45'	18°52'	23°10'	20°44'	27°22'	23°19'	27°57'	9°26'	8°27'	26°D52	25°34'	25°26'	3°15'	M18
T 19	23 50 38	25°48'59"	10 ^h 33'	20° 9'	24°22'	21°24'	27°21'	23°18'	28° 0'	9°28'	8°29'	26°53'	25°31'	25°32'	3°13'	T 19
W20	23 54 35	26°47'36"	24°46'	21°25'	25°34'	22° 4'	27°20'	23°17'	28° 4'	9°30'	8°31'	26°54'	25°28'	25°39'	3°10'	W20
T 21	23 58 31	27°46'14"	9 ^h 41'16"	22°40'	26°47'	22°44'	27°20'	23°16'	28° 7'	9°32'	8°33'	26°56'	25°25'	25°46'	3° 7'	T 21
F 22	0 2 28	28°44'54"	24° 2'	23°53'	28° 0'	23°24'	27°19'	23°16'	28°11'	9°33'	8°35'	26°R57	25°22'	25°52'	3° 5'	F 22
S 23	0 6 24	29°43'36"	8 ^h 35'9"	25° 4'	29°12'	24° 4'	27°19'	23°15'	28°14'	9°35'	8°37'	26°56'	25°19'	25°59'	3° 2'	S 23
S 24	0 10 21	0 ^h 42'19"	23°59'	26°13'	0 ^h 11'25"	24°44'	27°D19	23°15'	28°17'	9°37'	8°39'	26°54'	25°15'	26° 5'	3° 0'	S 24
M25	0 14 17	1°41'04"	8 ^h 35'	27°20'	1°38'	25°24'	27°19'	23°15'	28°20'	9°39'	8°41'	26°50'	25°12'	26°12'	2°57'	M25
T 26	0 18 14	2°39'52"	23°54'	28°26'	2°51'	26° 4'	27°20'	23°14'	28°24'	9°41'	8°43'	26°45'	25° 9'	26°19'	2°55'	T 26
W27	0 22 10	3°38'41"	7 ^h 35'	29°29'	4° 4'	26°45'	27°20'	23°14'	28°27'	9°43'	8°45'	26°40'	25° 6'	26°25'	2°53'	W27
T 28	0 26 7	4°37'33"	21°48'	0 ^h 11'29"	5°17'	27°25'	27°21'	23°D14	28°30'	9°45'	8°46'	26°34'	25° 3'	26°32'	2°50'	T 28
F 29	0 30 3	5°36'27"	5 ^h 11'15"	1°27'	6°30'	28° 5'	27°22'	23°14'	28°33'	9°47'	8°48'	26°29'	24°59'	26°39'	2°48'	F 29
S 30	0 34 0	6 ^h 35'24"	18 ^h 11'16"	2 ^h 11'23"	7 ^h 11'43"	28 ^h 46'	27 ^h 23'	23 ^h 14'	28 ^h 37'	9 ^h 48'	8 ^h 50'	26 ^h 26'	24 ^h 56'	26 ^h 45'	2 ^h 46'	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	8n27	14n18	5s17	3n 7	0n39	19n16	0s16	3s24	0n26	21s11	0s40	21s33	0s13	13n12	0n42	12s51	1n45
S 2	8 5	16 48	5 10	2 22	0 32	19 3	0 13	3 40	0 26	21 12	0 40	21 34	0 13	13 10	0 42	12 51	1 45
S 3	7 44	18 26	4 47	1 37	0 25	18 49	0 9	3 56	0 25	21 13	0 40	21 34	0 13	13 9	0 42	12 52	1 45
M 4	7 21	19 10	4 12	0 52	0 18	18 35	0 6	4 11	0 24	21 14	0 40	21 35	0 13	13 8	0 42	12 52	1 45
T 5	6 59	18 59	3 27	0 7	0 10	18 20	0 3	4 27	0 24	21 15	0 40	21 35	0 13	13 7	0 42	12 53	1 45
W 6	6 37	17 58	2 33	0s37	0 3	18 5	0n 0	4 43	0 23	21 15	0 40	21 35	0 13	13 5	0 42	12 53	1 44
T 7	6 15	16 10	1 32	1 21	0s 5	17 49	0 4	4 59	0 22	21 16	0 40	21 36	0 13	13 4	0 42	12 54	1 44
F 8	5 52	13 42	0 28	2 5	0 13	17 32	0 7	5 15	0 22	21 17	0 40	21 36	0 13	13 3	0 42	12 54	1 44
S 9	5 30	10 39	0n37	2 48	0 21	17 16	0 10	5 30	0 21	21 17	0 40	21 37	0 13	13 2	0 42	12 55	1 44
S 10	5 7	7 10	1 41	3 30	0 28	16 58	0 13	5 46	0 21	21 18	0 40	21 37	0 13	13 0	0 42	12 55	1 44
M11	4 44	3 22	2 40	4 12	0 36	16 40	0 16	6 2	0 20	21 18	0 40	21 37	0 13	12 59	0 42	12 56	1 44
T 12	4 21	0s37	3 34	4 54	0 44	16 22	0 19	6 18	0 19	21 19	0 40	21 38	0 13	12 58	0 42	12 56	1 44
W13	3 59	4 36	4 18	5 34	0 53	16 3	0 22	6 33	0 19	21 19	0 40	21 38	0 14	12 57	0 42	12 57	1 44
T 14	3 36	8 27	4 51	6 15	1 1	15 44	0 25	6 49	0 18	21 20	0 40	21 38	0 14	12 56	0 42	12 57	1 44
F 15	3 12	12 0	5 10	6 54	1 9	15 24	0 28	7 5	0 17	21 20	0 40	21 39	0 14	12 54	0 42	12 58	1 44
S 16	2 49	15 3	5 14	7 33	1 17	15 4	0 31	7 20	0 17	21 20	0 40	21 39	0 14	12 53	0 42	12 59	1 44
S 17	2 26	17 24	5 2	8 12	1 25	14 44	0 34	7 36	0 16	21 21	0 40	21 39	0 14	12 52	0 42	12 59	1 44
M18	2 3	18 51	4 33	8 49	1 33	14 23	0 37	7 51	0 16	21 21	0 40	21 39	0 14	12 51	0 42	13 0	1 44
T 19	1 40	19 14	3 47	9 26	1 41	14 1	0 39	8 7	0 15	21 21	0 40	21 40	0 14	12 50	0 42	13 0	1 44
W20	1 17	18 26	2 47	10 2	1 48	13 39	0 42	8 22	0 14	21 21	0 40	21 40	0 14	12 49	0 42	13 1	1 44
T 21	0 53	16 24	1 35	10 37	1 56	13 17	0 45	8 38	0 14	21 21	0 40	21 40	0 14	12 47	0 42	13 1	1 44
F 22	0 30	13 16	0 16	11 11	2 4	12 55	0 47	8 53	0 13	21 21	0 40	21 40	0 14	12 46	0 42	13 2	1 44
S 23	0 7	9 13	1s 5	11 44	2 11	12 32	0 50	9 9	0 12	21 21	0 40	21 40	0 14	12 45	0 42	13 3	1 44
S 24	0s17	4 34	2 23	12 16	2 19	12 8	0 52	9 24	0 12	21 21	0 40	21 40	0 14	12 44	0 42	13 3	1 44
M25	0 40	0n19	3 29	12 48	2 26	11 45	0 55	9 39	0 11	21 21	0 40	21 41	0 14	12 43	0 42	13 4	1 44
T 26	1 4	5 6	4 21	13 18	2 33	11 21	0 57	9 54	0 11	21 21	0 40	21 41	0 14	12 42	0 42	13 5	1 44
W27	1 27	9 29	4 55	13 46	2 39	10 56	0 59	10 9	0 10	21 21	0 40	21 41	0 14	12 41	0 42	13 5	1 44
T 28	1 50	13 13	5 10	14 14	2 46	10 32	1 1	10 25	0 9	21 21	0 40	21 41	0 14	12 40	0 42	13 6	1 44
F 29	2 14	16 8	5 8	14 40	2 52	10 7	1 3	10 40	0 9	21 21	0 40	21 41	0 15	12 38	0 42	13 6	1 44
S 30	2s37	18n 7	4s49	15s 5	2s58	9n41	1n 6	10s55	0n 8	21s21	0s40	21s41	0s15	12n37	0n42	13s 7	1n44

Julian Day Number = 2437543.5, Delta T = 33.86 sec

Ecliptic obliquity = 23°26'32", Nutation = - 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°12'18", Lahiri = 23°19'18"

ASTRODIENST EPHEMERIS for the year 1961

geocentric

OCTOBER 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 37 57	7♂34'22	0♂52	3♂15	8♂57	29♂26	27♂24	23♂15	28♂40	9♂50	8♂52	26°R24	24♂53	26♂52	2°R43	S 1
M 2	0 41 53	8°33'23	13° 9	4° 4	10°10	0♂ 7	27°26	23°15	28°43	9°52	8°54	26°D24	24°50	26°59	2°H41	M 2
T 3	0 45 50	9°32'27	25°11	4°50	11°23	0°47	27°28	23°15	28°46	9°54	8°56	26♂25	24°47	27° 5	2°39	T 3
W 4	0 49 46	10°31'32	7♂ 3	5°31	12°37	1°28	27°30	23°16	28°49	9°56	8°58	26°27	24°44	27°12	2°37	W 4
T 5	0 53 43	11°30'40	18°50	6° 9	13°50	2° 9	27°32	23°17	28°52	9°58	8°59	26°28	24°40	27°19	2°35	T 5
F 6	0 57 39	12°29'50	0♂37	6°42	15° 4	2°49	27°34	23°17	28°55	10° 0	9° 1	26°R28	24°37	27°25	2°33	F 6
S 7	1 1 36	13°29'02	12°28	7° 9	16°17	3°30	27°36	23°18	28°58	10° 2	9° 3	26°27	24°34	27°32	2°31	S 7
S 8	1 5 32	14°28'16	24°26	7°32	17°31	4°11	27°39	23°19	29° 1	10° 5	9° 5	26°23	24°31	27°38	2°29	S 8
M 9	1 9 29	15°27'33	6♂34	7°48	18°45	4°52	27°42	23°20	29° 4	10° 7	9° 6	26°17	24°28	27°45	2°27	M 9
T 10	1 13 26	16°26'51	18°53	7°58	19°59	5°33	27°45	23°22	29° 6	10° 9	9° 8	26° 9	24°25	27°52	2°25	T 10
W11	1 17 22	17°26'12	1♂25	8°R 2	21°13	6°14	27°48	23°23	29° 9	10°11	9°10	26° 0	24°21	27°58	2°23	W11
T 12	1 21 19	18°25'34	14° 9	7°57	22°26	6°55	27°52	23°24	29°12	10°13	9°12	25°50	24°18	28° 5	2°21	T 12
F 13	1 25 15	19°24'59	27° 5	7°45	23°40	7°37	27°55	23°26	29°15	10°15	9°13	25°41	24°15	28°12	2°20	F 13
S 14	1 29 12	20°24'26	10♂14	7°25	24°54	8°18	27°59	23°27	29°17	10°17	9°15	25°33	24°12	28°18	2°18	S 14
S 15	1 33 8	21°23'54	23°35	6°57	26° 8	8°59	28° 3	23°29	29°20	10°19	9°17	25°27	24° 9	28°25	2°16	S 15
M16	1 37 5	22°23'24	7♂ 9	6°20	27°23	9°40	28° 7	23°31	29°23	10°21	9°18	25°24	24° 5	28°32	2°15	M16
T 17	1 41 1	23°22'56	20°55	5°34	28°37	10°22	28°12	23°32	29°25	10°24	9°20	25°D23	24° 2	28°38	2°13	T 17
W18	1 44 58	24°22'29	4♂55	4°41	29°51	11° 3	28°16	23°34	29°28	10°26	9°21	25°23	23°59	28°45	2°12	W18
T 19	1 48 55	25°22'04	19° 7	3°41	1♂ 5	11°45	28°21	23°36	29°30	10°28	9°23	25°R24	23°56	28°52	2°10	T 19
F 20	1 52 51	26°21'41	3♂31	2°34	2°19	12°26	28°26	23°39	29°33	10°30	9°24	25°24	23°53	28°58	2° 9	F 20
S 21	1 56 48	27°21'20	18° 4	1°22	3°34	13° 8	28°31	23°41	29°35	10°32	9°26	25°22	23°50	29° 5	2° 8	S 21
S 22	2 0 44	28°21'00	2°Y41	0° 8	4°48	13°50	28°36	23°43	29°38	10°35	9°27	25°17	23°46	29°12	2° 6	S 22
M23	2 4 41	29°20'42	17°17	28♂52	6° 2	14°31	28°41	23°46	29°40	10°37	9°29	25°10	23°43	29°18	2° 5	M23
T 24	2 8 37	0♂20'26	1♂44	27°39	7°17	15°13	28°47	23°48	29°42	10°39	9°30	25° 1	23°40	29°25	2° 4	T 24
W25	2 12 34	1°20'13	15°55	26°28	8°31	15°55	28°53	23°51	29°44	10°41	9°32	24°50	23°37	29°31	2° 3	W25
T 26	2 16 30	2°20'01	29°46	25°24	9°46	16°37	28°59	23°53	29°47	10°43	9°33	24°39	23°34	29°38	2° 2	T 26
F 27	2 20 27	3°19'51	13♂13	24°27	11° 0	17°19	29° 5	23°56	29°49	10°46	9°35	24°29	23°30	29°45	2° 1	F 27
S 28	2 24 24	4°19'44	26°15	23°39	12°15	18° 1	29°11	23°59	29°51	10°48	9°36	24°21	23°27	29°51	2° 0	S 28
S 29	2 28 20	5°19'38	8♂54	23° 2	13°30	18°43	29°17	24° 2	29°53	10°50	9°37	24°16	23°24	29°58	1°59	S 29
M30	2 32 17	6°19'35	21°12	22°36	14°44	19°25	29°24	24° 5	29°55	10°52	9°39	24°12	23°21	0♂ 5	1°58	M30
T 31	2 36 13	7♂19'34	3♂15	22♂22	15♂59	20♂ 7	29♂31	24♂ 8	29♂57	10♂55	9♂40	24°D11	23♂18	0♂11	1°H58	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	3s 0	19n 9	4s17	15s28	3s 3	9n16	1n 8	11s 9	0n 7	21s20	0s40	21s41	0s15	12n36	0n43	13s 8
M 2	3 24	19 15	3 34	15 50	3 8	8 50	1 9	11 24	0 7	21 20	0 40	21 41	0 15	12 35	0 43	13 8
T 3	3 47	18 27	2 42	16 10	3 13	8 24	1 11	11 39	0 6	21 20	0 40	21 41	0 15	12 34	0 43	13 9
W 4	4 10	16 51	1 44	16 28	3 17	7 57	1 13	11 54	0 6	21 19	0 40	21 41	0 15	12 33	0 43	13 10
T 5	4 33	14 32	0 41	16 43	3 21	7 31	1 15	12 9	0 5	21 19	0 40	21 41	0 15	12 32	0 43	13 10
F 6	4 56	11 36	0n22	16 57	3 23	7 4	1 17	12 23	0 4	21 18	0 40	21 41	0 15	12 31	0 43	13 11
S 7	5 19	8 12	1 25	17 8	3 26	6 37	1 18	12 38	0 4	21 18	0 40	21 41	0 15	12 30	0 43	13 12
S 8	5 42	4 26	2 25	17 17	3 27	6 9	1 20	12 52	0 3	21 17	0 40	21 40	0 15	12 29	0 43	13 12
M 9	6 5	0 27	3 19	17 23	3 27	5 42	1 21	13 6	0 3	21 17	0 40	21 40	0 15	12 28	0 43	13 13
T 10	6 28	3s38	4 4	17 25	3 26	5 14	1 23	13 21	0 2	21 16	0 40	21 40	0 15	12 27	0 43	13 14
W11	6 51	7 36	4 39	17 25	3 25	4 46	1 24	13 35	0 1	21 15	0 40	21 40	0 15	12 26	0 43	13 14
T 12	7 13	11 19	5 0	17 20	3 22	4 18	1 25	13 49	0 1	21 15	0 40	21 40	0 15	12 25	0 43	13 15
F 13	7 36	14 33	5 6	17 12	3 17	3 50	1 26	14 3	0 0	21 14	0 40	21 40	0 15	12 24	0 43	13 16
S 14	7 58	17 6	4 56	17 0	3 11	3 22	1 27	14 17	0s 1	21 13	0 40	21 39	0 15	12 24	0 43	13 16
S 15	8 21	18 47	4 30	16 43	3 3	2 53	1 28	14 31	0 1	21 12	0 40	21 39	0 15	12 23	0 43	13 17
M16	8 43	19 26	3 49	16 22	2 54	2 25	1 29	14 44	0 2	21 11	0 40	21 39	0 15	12 22	0 43	13 18
T 17	9 5	18 57	2 54	15 57	2 43	1 56	1 30	14 58	0 2	21 11	0 40	21 39	0 15	12 21	0 43	13 18
W18	9 27	17 18	1 47	15 26	2 30	1 27	1 31	15 12	0 3	21 10	0 40	21 38	0 16	12 20	0 43	13 19
T 19	9 49	14 34	0 34	14 52	2 15	0 58	1 32	15 25	0 4	21 9	0 40	21 38	0 16	12 19	0 43	13 20
F 20	10 10	10 53	0s43	14 13	1 59	0 29	1 32	15 38	0 4	21 8	0 40	21 38	0 16	12 18	0 43	13 20
S 21	10 32	6 32	1 58	13 32	1 41	0 0	1 33	15 52	0 5	21 7	0 40	21 37	0 16	12 18	0 43	13 21
S 22	10 53	1 46	3 5	12 48	1 22	0s29	1 34	16 5	0 5	21 6	0 40	21 37	0 16	12 17	0 43	13 22
M23	11 15	3n 5	4 0	12 2	1 2	0 58	1 34	16 18	0 6	21 4	0 40	21 37	0 16	12 16	0 43	13 23
T 24	11 36	7 43	4 39	11 17	0 41	1 27	1 34	16 30	0 7	21 3	0 40	21 36	0 16	12 15	0 43	13 23
W25	11 56	11 49	4 59	10 32	0 20	1 56	1 35	16 43	0 7	21 2	0 40	21 36	0 16	12 14	0 43	13 24
T 26	12 17	15 11	5 2	9 49	0 0	2 25	1 35	16 56	0 8	21 1	0 40	21 36	0 16	12 14	0 43	13 25
F 27	12 38	17 38	4 47	9 10	0n20	2 54	1 35	17 8	0 8	21 0	0 40	21 35	0 16	12 13	0 43	13 25
S 28	12 58	19 6	4 18	8 36	0 38	3 23	1 35	17 21	0 9	20 58	0 40	21 35	0 16	12 12	0 43	13 26
S 29	13 18	19 33	3 37	8 6	0 55	3 52	1 35	17 33	0 10	20 57	0 40	21 34	0 16	12 12	0 43	13 27
M30	13 38	19 2	2 46	7 42	1 11	4 21	1 35	17 45	0 10	20 55	0 40	21 34	0 16	12 11	0 44	13 27
T 31	13s58	17n40	1s49	7s24	1n25	4s50	1n35	17s57	0s11	20s54	0s40	21s33	0s16	12n10	0n44	13s28

Julian Day Number = 2437573.5, Delta T = 33.90 sec
 Ecliptic obliquity = 23°26'32", Nutation = - 0°00'11", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°12'22", Lahiri = 23°19'22"

ASTRODIENST EPHEMERIS for the year 1961

geocentric

NOVEMBER 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 40 10	8♐19°35	15♏ 7	22°D19	17♏14	20♐49	29♏38	24♏11	29♏59	10♐57	9♐41	24♏11	23♏15	0♐18	1°R57	W 1
T 2	2 44 6	9°19'38	26°55	22♏27	18°28	21°32	29°45	24°15	0♐1	10°59	9°42	24°R12	23°11	0°25	1°K56	T 2
F 3	2 48 3	10°19'43	8♐47	22°46	19°43	22°14	29°52	24°18	0°2	11°1	9°44	24°11	23°8	0°31	1°56	F 3
S 4	2 51 59	11°19'51	20°37	23°15	20°58	22°57	29°59	24°22	0°4	11°4	9°45	24°8	23°5	0°38	1°55	S 4
S 5	2 55 56	12°20'00	2♏41	23°53	22°13	23°39	0♏7	24°25	0°6	11°6	9°46	24°2	23°2	0°45	1°55	S 5
M 6	2 59 52	13°20'12	14°58	24°39	23°28	24°22	0°14	24°29	0°8	11°8	9°47	23°54	22°59	0°51	1°54	M 6
T 7	3 3 49	14°20'25	27°31	25°32	24°43	25°4	0°22	24°33	0°9	11°10	9°48	23°43	22°56	0°58	1°54	T 7
W 8	3 7 46	15°20'40	10♐21	26°31	25°58	25°47	0°30	24°37	0°11	11°13	9°49	23°30	22°52	1°4	1°54	W 8
T 9	3 11 42	16°20'57	23°27	27°36	27°13	26°30	0°38	24°41	0°12	11°15	9°50	23°16	22°49	1°11	1°53	T 9
F 10	3 15 39	17°21'16	6♏47	28°46	28°28	27°12	0°46	24°45	0°14	11°17	9°51	23°3	22°46	1°18	1°53	F 10
S 11	3 19 35	18°21'36	20°19	0♐0	29°43	27°55	0°55	24°49	0°15	11°19	9°52	22°52	22°43	1°24	1°53	S 11
S 12	3 23 32	19°21'58	4♏1	1°18	0♐58	28°38	1°3	24°53	0°17	11°21	9°53	22°44	22°40	1°31	1°D53	S 12
M13	3 27 28	20°22'22	17°50	2°39	2°13	29°21	1°12	24°57	0°18	11°24	9°54	22°38	22°36	1°38	1°53	M13
T 14	3 31 25	21°22'46	1♏45	4°2	3°28	0♏4	1°21	25°1	0°19	11°26	9°55	22°36	22°33	1°44	1°53	T 14
W15	3 35 22	22°23'13	15°45	5°27	4°43	0°47	1°30	25°6	0°20	11°28	9°56	22°35	22°30	1°51	1°53	W15
T 16	3 39 18	23°23'40	29°49	6°54	5°58	1°30	1°39	25°10	0°21	11°30	9°57	22°35	22°27	1°58	1°54	T 16
F 17	3 43 15	24°24'09	13♏57	8°23	7°13	2°13	1°48	25°15	0°23	11°33	9°58	22°34	22°24	2°4	1°54	F 17
S 18	3 47 11	25°24'38	28°8	9°53	8°28	2°56	1°57	25°19	0°24	11°35	9°58	22°31	22°21	2°11	1°54	S 18
S 19	3 51 8	26°25'10	12♐19	11°24	9°44	3°40	2°6	25°24	0°25	11°37	9°59	22°26	22°17	2°18	1°55	S 19
M20	3 55 4	27°25'42	26°27	12°55	10°59	4°23	2°16	25°29	0°26	11°39	10°0	22°17	22°14	2°24	1°55	M20
T 21	3 59 1	28°26'16	10♏29	14°27	12°14	5°6	2°26	25°34	0°26	11°41	10°0	22°6	22°11	2°31	1°55	T 21
W22	4 2 57	29°26'51	24°19	16°0	13°29	5°50	2°35	25°39	0°27	11°44	10°1	21°54	22°8	2°38	1°56	W22
T 23	4 6 54	0♏27'28	7♐14	17°33	14°44	6°33	2°45	25°44	0°28	11°46	10°2	21°41	22°5	2°44	1°57	T 23
F 24	4 10 51	1°28'06	21°10	19°7	16°0	7°17	2°55	25°49	0°29	11°48	10°2	21°29	22°2	2°51	1°57	F 24
S 25	4 14 47	2°28'45	4♏5	20°40	17°15	8°0	3°6	25°54	0°29	11°50	10°3	21°19	21°58	2°57	1°58	S 25
S 26	4 18 44	3°29'27	16°41	22°14	18°30	8°44	3°16	25°59	0°30	11°52	10°4	21°12	21°55	3°4	1°59	S 26
M27	4 22 40	4°30'09	28°59	23°48	19°46	9°27	3°26	26°4	0°31	11°54	10°4	21°7	21°52	3°11	2°0	M27
T 28	4 26 37	5°30'53	11♏2	25°22	21°1	10°11	3°37	26°10	0°31	11°56	10°4	21°5	21°49	3°17	2°1	T 28
W29	4 30 33	6°31'39	22°55	26°56	22°16	10°55	3°47	26°15	0°31	11°58	10°5	21°D 5	21°46	3°24	2°2	W29
T 30	4 34 30	7♏32'26	4♐42	28♐30	23♐32	11♏39	3♏58	26♏20	0♐32	12♐0	10♐5	21°R 5	21♏42	3♐31	2♏3	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s17	15n32	0s48	7s11	1n37	5s19	1n34	18s9	0s11	20s53	0s40	21s33	0s16	12n10	0n44	13s29
T 2	14 36	12 46	0n14	7 5	1 47	5 47	1 34	18 21	0 12	20 51	0 40	21 32	0 16	12 9	0 44	13 29
F 3	14 55	9 29	1 16	7 4	1 56	6 16	1 34	18 32	0 13	20 50	0 40	21 32	0 16	12 8	0 44	13 30
S 4	15 14	5 48	2 15	7 8	2 2	6 44	1 33	18 43	0 13	20 48	0 40	21 31	0 16	12 8	0 44	13 31
S 5	15 32	1 49	3 9	7 17	2 8	7 13	1 33	18 55	0 14	20 46	0 40	21 30	0 16	12 7	0 44	13 32
M 6	15 51	2s17	3 55	7 30	2 12	7 41	1 32	19 6	0 14	20 45	0 39	21 30	0 17	12 7	0 44	13 32
T 7	16 9	6 23	4 30	7 47	2 14	8 9	1 32	19 17	0 15	20 43	0 39	21 29	0 17	12 6	0 44	13 33
W 8	16 26	10 17	4 53	8 8	2 15	8 37	1 31	19 28	0 16	20 41	0 39	21 29	0 17	12 6	0 44	13 34
T 9	16 44	13 47	5 0	8 31	2 15	9 5	1 30	19 38	0 16	20 40	0 39	21 28	0 17	12 5	0 44	13 34
F 10	17 1	16 39	4 52	8 56	2 15	9 32	1 29	19 49	0 17	20 38	0 39	21 27	0 17	12 5	0 44	13 35
S 11	17 18	18 39	4 27	9 24	2 13	10 0	1 28	19 59	0 17	20 36	0 39	21 27	0 17	12 4	0 44	13 36
S 12	17 34	19 36	3 47	9 53	2 10	10 27	1 27	20 9	0 18	20 34	0 39	21 26	0 17	12 4	0 44	13 36
M13	17 51	19 24	2 53	10 24	2 7	10 53	1 26	20 19	0 19	20 32	0 39	21 25	0 17	12 3	0 44	13 37
T 14	18 7	18 1	1 48	10 56	2 3	11 20	1 25	20 29	0 19	20 30	0 39	21 24	0 17	12 3	0 44	13 38
W15	18 22	15 33	0 36	11 28	1 59	11 46	1 24	20 38	0 20	20 28	0 39	21 24	0 17	12 3	0 44	13 38
T 16	18 37	12 8	0s38	12 1	1 54	12 12	1 23	20 48	0 20	20 26	0 39	21 23	0 17	12 2	0 44	13 39
F 17	18 52	8 1	1 50	12 35	1 49	13 8	1 22	20 57	0 21	20 24	0 39	21 22	0 17	12 2	0 44	13 40
S 18	19 7	3 26	2 56	13 9	1 43	13 4	1 20	21 6	0 22	20 22	0 39	21 21	0 17	12 2	0 44	13 40
S 19	19 21	1n19	3 51	13 42	1 37	13 29	1 19	21 15	0 22	20 20	0 39	21 21	0 17	12 1	0 44	13 41
M20	19 35	6 0	4 31	14 16	1 31	13 54	1 17	21 24	0 23	20 18	0 39	21 20	0 17	12 1	0 44	13 42
T 21	19 49	10 18	4 54	14 49	1 25	14 18	1 16	21 32	0 23	20 16	0 39	21 19	0 17	12 1	0 44	13 42
W22	20 2	14 0	5 0	15 23	1 18	14 42	1 14	21 40	0 24	20 13	0 39	21 18	0 17	12 0	0 44	13 43
T 23	20 15	16 53	4 49	15 55	1 12	15 6	1 13	21 48	0 24	20 11	0 39	21 17	0 17	12 0	0 45	13 44
F 24	20 27	18 48	4 22	16 28	1 5	15 29	1 11	21 56	0 25	20 9	0 39	21 16	0 17	12 0	0 45	13 44
S 25	20 40	19 41	3 42	16 59	0 58	15 52	1 9	22 4	0 26	20 6	0 39	21 15	0 18	12 0	0 45	13 45
S 26	20 51	19 34	2 52	17 30	0 51	16 15	1 8	22 11	0 26	20 4	0 39	21 14	0 18	12 0	0 45	13 46
M27	21 3	18 30	1 55	18 1	0 44	16 37	1 6	22 19	0 27	20 2	0 39	21 14	0 18	11 59	0 45	13 46
T 28	21 14	16 37	0 53	18 30	0 37	16 59	1 4	22 26	0 27	19 59	0 39	21 13	0 18	11 59	0 45	13 47
W29	21 24	14 2	0n10	18 59	0 30	17 20	1 2	22 33	0 28	19 57	0 39	21 12	0 18	11 59	0 45	13 47
T 30	21s34	10n54	1n12	19s27	0n23	17s41	1n0	22s39	0s28	19s54	0s39	21s11	0s18	11n59	0n45	13s48

Julian Day Number = 2437604.5, Delta T = 33.93 sec

Ecliptic obliquity = 23°26'32", Nutation = - 0°00'12", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°12'26", Lahiri = 23°19'26"

ASTRODIENST EPHEMERIS for the year 1961

geocentric

DECEMBER 1961

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 38 26	8♂33'15	16♂31	0♂ 4	24♂47	12♂23	4♂ 9	26♂26	0♂32	12♂ 3	10♂ 6	21°R 5	21♂39	3♂37	2♂ 4	F 1	
S 2	4 42 23	9°34'05	28°26	1°38	26° 2	13° 7	4°20	26°31	0°32	12° 5	10° 6	21♂ 3	21°36	3°44	2° 5	S 2	
S 3	4 46 20	10°34'56	10♂32	3°12	27°18	13°51	4°31	26°37	0°33	12° 7	10° 6	20°59	21°33	3°51	2° 6	S 3	
M 4	4 50 16	11°35'49	22°54	4°46	28°33	14°35	4°42	26°43	0°33	12° 9	10° 7	20°52	21°30	3°57	2° 7	M 4	
T 5	4 54 13	12°36'43	5♂36	6°21	29°48	15°19	4°53	26°48	0°33	12°11	10° 7	20°43	21°27	4° 4	2° 9	T 5	
W 6	4 58 9	13°37'39	18°38	7°55	1♂ 4	16° 3	5° 4	26°54	0°R33	12°13	10° 7	20°32	21°23	4°11	2°10	W 6	
T 7	5 2 6	14°38'35	2♂ 1	9°29	2°19	16°47	5°16	27° 0	0°33	12°15	10° 7	20°20	21°20	4°17	2°12	T 7	
F 8	5 6 2	15°39'33	15°44	11° 3	3°35	17°32	5°27	27° 6	0°33	12°17	10° 8	20° 9	21°17	4°24	2°13	F 8	
S 9	5 9 59	16°40'32	29°42	12°37	4°50	18°16	5°39	27°12	0°33	12°19	10° 8	19°59	21°14	4°31	2°15	S 9	
S 10	5 13 55	17°41'31	13♂51	14°11	6° 6	19° 0	5°51	27°18	0°33	12°20	10° 8	19°52	21°11	4°37	2°16	S 10	
M11	5 17 52	18°42'31	28° 6	15°45	7°21	19°45	6° 2	27°24	0°32	12°22	10° 8	19°47	21° 8	4°44	2°18	M11	
T 12	5 21 49	19°43'32	12♂23	17°19	8°37	20°29	6°14	27°30	0°32	12°24	10°R 8	19°45	21° 4	4°51	2°20	T 12	
W13	5 25 45	20°44'34	26°38	18°53	9°52	21°14	6°26	27°36	0°32	12°26	10° 8	19°D45	21° 1	4°57	2°21	W13	
T 14	5 29 42	21°45'36	10♂49	20°28	11° 7	21°58	6°38	27°42	0°31	12°28	10° 8	19°46	20°58	5° 4	2°23	T 14	
F 15	5 33 38	22°46'38	24°54	22° 2	12°23	22°43	6°50	27°49	0°31	12°30	10° 8	19°R46	20°55	5°10	2°25	F 15	
S 16	5 37 35	23°47'40	8♂53	23°36	13°38	23°28	7° 3	27°55	0°30	12°32	10° 8	19°45	20°52	5°17	2°27	S 16	
S 17	5 41 31	24°48'44	22°45	25°11	14°54	24°12	7°15	28° 1	0°30	12°33	10° 8	19°42	20°48	5°24	2°29	S 17	
M18	5 45 28	25°49'47	6♂29	26°46	16° 9	24°57	7°27	28° 8	0°29	12°35	10° 7	19°36	20°45	5°30	2°31	M18	
T 19	5 49 24	26°50'51	20° 3	28°21	17°25	25°42	7°40	28°14	0°28	12°37	10° 7	19°28	20°42	5°37	2°33	T 19	
W 20	5 53 21	27°51'55	3♂27	29°56	18°40	26°27	7°52	28°21	0°28	12°39	10° 7	19°19	20°39	5°44	2°35	W20	
T 21	5 57 18	28°53'00	16°37	1♂31	19°56	27°12	8° 5	28°27	0°27	12°40	10° 7	19° 9	20°36	5°50	2°37	T 21	
F 22	6 1 14	29°54'05	29°34	3° 6	21°11	27°56	8°17	28°34	0°26	12°42	10° 6	19° 1	20°33	5°57	2°40	F 22	
S 23	6 5 11	0♂55'11	12♂15	4°42	22°27	28°41	8°30	28°40	0°25	12°44	10° 6	18°53	20°29	6° 4	2°42	S 23	
S 24	6 9 7	1°56'17	24°40	6°18	23°42	29°27	8°43	28°47	0°24	12°45	10° 6	18°48	20°26	6°10	2°44	S 24	
M25	6 13 4	2°57'23	6♂52	7°54	24°58	0♂12	8°56	28°53	0°23	12°47	10° 5	18°45	20°23	6°17	2°47	M25	
T 26	6 17 0	3°58'31	18°53	9°30	26°13	0°57	9° 9	29° 0	0°22	12°49	10° 5	18°D44	20°20	6°24	2°49	T 26	
W27	6 20 57	4°59'38	0♂45	11° 7	27°29	1°42	9°22	29° 7	0°21	12°50	10° 5	18°45	20°17	6°30	2°52	W27	
T 28	6 24 53	6° 0'46	12°32	12°44	28°44	2°27	9°35	29°13	0°20	12°52	10° 4	18°47	20°14	6°37	2°54	T 28	
F 29	6 28 50	7° 1'55	24°21	14°21	29°59	3°12	9°48	29°20	0°19	12°53	10° 4	18°48	20°10	6°44	2°57	F 29	
S 30	6 32 47	8° 3'03	6♂15	15°58	1♂15	3°58	10° 1	29°27	0°17	12°55	10° 3	18°R49	20° 7	6°50	2°59	S 30	
S 31	6 36 43	9♂ 4'13	18♂20	17♂35	2♂31	4♂43	10♂14	29♂34	0♂16	12♂56	10♂ 2	18♂48	20♂ 4	6♂57	3♂ 2	S 31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	21s44	7n20	2n11	19s54	0n16	18s 1	0n58	22s46	0s29	19s51	0s39	21s10	0s18	11n59	0n45	13s49	1n43
S 2	21 53	3 27	3 5	20 21	0 9	18 21	0 56	22 52	0 30	19 49	0 39	21 9	0 18	11 59	0 45	13 49	1 43
S 3	22 2	0s37	3 51	20 46	0 2	18 41	0 54	22 58	0 30	19 46	0 39	21 8	0 18	11 59	0 45	13 50	1 43
M 4	22 11	4 45	4 28	21 10	0s 5	18 59	0 52	23 3	0 31	19 44	0 39	21 7	0 18	11 59	0 45	13 51	1 44
T 5	22 19	8 47	4 53	21 33	0 11	19 18	0 50	23 9	0 31	19 41	0 39	21 6	0 18	11 59	0 45	13 51	1 44
W 6	22 26	12 31	5 3	21 56	0 18	19 36	0 48	23 14	0 32	19 38	0 39	21 5	0 18	11 59	0 45	13 52	1 44
T 7	22 33	15 43	4 57	22 17	0 25	19 53	0 46	23 19	0 32	19 35	0 39	21 3	0 18	11 59	0 45	13 52	1 44
F 8	22 40	18 8	4 34	22 37	0 31	20 9	0 44	23 24	0 33	19 33	0 39	21 2	0 18	11 59	0 45	13 53	1 44
S 9	22 46	19 33	3 54	22 56	0 38	20 26	0 41	23 29	0 33	19 30	0 39	21 1	0 18	11 59	0 45	13 53	1 44
S 10	22 52	19 45	2 59	23 14	0 44	20 41	0 39	23 33	0 34	19 27	0 39	21 0	0 18	11 59	0 45	13 54	1 44
M 11	22 58	18 42	1 53	23 31	0 50	20 56	0 37	23 37	0 34	19 24	0 39	20 59	0 18	11 59	0 45	13 54	1 44
T 12	23 3	16 28	0 39	23 46	0 56	21 10	0 35	23 41	0 35	19 21	0 39	20 58	0 18	12 0	0 45	13 55	1 44
W 13	23 7	13 13	0s37	24 0	1 2	21 24	0 32	23 45	0 36	19 18	0 39	20 57	0 18	12 0	0 45	13 55	1 44
T 14	23 11	9 13	1 50	24 13	1 8	21 37	0 30	23 48	0 36	19 15	0 39	20 56	0 19	12 0	0 45	13 56	1 44
F 15	23 15	4 44	2 57	24 25	1 13	21 50	0 28	23 51	0 37	19 12	0 39	20 54	0 19	12 0	0 46	13 56	1 44
S 16	23 18	0 2	3 52	24 36	1 18	22 1	0 25	23 54	0 37	19 9	0 39	20 53	0 19	12 0	0 46	13 57	1 44
S 17	23 20	4n37	4 33	24 45	1 23	22 13	0 23	23 57	0 38	19 6	0 39	20 52	0 19	12 1	0 46	13 57	1 44
M 18	23 23	8 59	4 58	24 53	1 28	22 23	0 20	23 59	0 38	19 3	0 39	20 51	0 19	12 1	0 46	13 58	1 44
T 19	23 24	12 50	5 6	24 59	1 33	22 33	0 18	24 1	0 39	18 59	0 39	20 49	0 19	12 1	0 46	13 58	1 44
W 20	23 26	15 59	4 57	25 4	1 38	22 42	0 16	24 3	0 39	18 56	0 39	20 48	0 19	12 1	0 46	13 59	1 44
T 21	23 26	18 15	4 32	25 8	1 42	22 51	0 13	24 4	0 40	18 53	0 39	20 47	0 19	12 2	0 46	13 59	1 44
F 22	23 27	19 33	3 54	25 10	1 46	22 58	0 11	24 6	0 40	18 50	0 39	20 46	0 19	12 2	0 46	14 0	1 44
S 23	23 26	19 49	3 4	25 11	1 50	23 5	0 8	24 7	0 41	18 46	0 39	20 44	0 19	12 2	0 46	14 0	1 44
S 24	23 26	19 7	2 6	25 10	1 53	23 12	0 6	24 8	0 41	18 43	0 39	20 43	0 19	12 3	0 46	14 1	1 44
M 25	23 25	17 32	1 4	25 8	1 56	23 17	0 3	24 8	0 42	18 40	0 39	20 42	0 19	12 3	0 46	14 1	1 44
T 26	23 23	15 11	0n 1	25 5	1 59	23 22	0 1	24 9	0 42	18 36	0 39	20 40	0 19	12 4	0 46	14 2	1 44
W 27	23 21	12 13	1 5	25 0	2 2	23 27	0s 1	24 9	0 43	18 33	0 40	20 39	0 19	12 4	0 46	14 2	1 44
T 28	23 18	8 47	2 6	24 53	2 4	23 30	0 4	24 8	0 43	18 29	0 40	20 38	0 19	12 5	0 46	14 2	1 44
F 29	23 15	5 1	3 1	24 45	2 6	23 33	0 6	24 8	0 44	18 26	0 40	20 36	0 19	12 5	0 46	14 3	1 44
S 30	23 12	1 2	3 50	24 36	2 7	23 35	0 9	24 7	0 44	18 22	0 40	20 35	0 19	12 5	0 46	14 3	1 44
S 31	23s 8	3s 3	4n29	24s24	2s 8	23s36	0s11	24s 6	0s45	18s19	0s40	20s34	0s20	12n 6	0n46	14s 4	1n45

Julian Day Number = 2437634.5, Delta T = 33.96 sec
 Ecliptic obliquity = 23°26'32, Nutation = - 0°00'12, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°12'30, Lahiri = 23°19'30