



Astrodienst Ephemeris Tables for the year 1731

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 1731
geocentric

JANUARY 1731

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 40 29	10 ³ 10'51	3 ⁴ 42	10 ³ 29	9°R23	20 ⁴ 42	9°R45	16 ⁴ 13	3 ⁴ 50	13°R 8	15 ⁴ 22	17 ³ 26	17 ³ 48	27 ³ 48	24°R38	M 1
T 2	6 44 26	11°12'01	16°23	12° 6	9 ⁴ 22	21°29	9 ⁴ 44	16°17	3°53	13 ⁴ 6	15°23	17°R26	17°45	27°54	24°Y38	T 2
W 3	6 48 22	12°13'11	29°28	13°44	9°19	22°16	9°43	16°22	3°56	13° 5	15°23	17°26	17°42	28° 1	24°38	W 3
T 4	6 52 19	13°14'21	12 ⁴ 58	15°22	9°14	23° 3	9°41	16°26	3°59	13° 3	15°24	17°25	17°38	28° 7	24°38	T 4
F 5	6 56 15	14°15'32	26°57	17° 1	9° 5	23°50	9°39	16°31	4° 2	13° 2	15°24	17°25	17°35	28°14	24°D38	F 5
S 6	7 0 12	15°16'43	11 ⁴ 22	18°40	8°55	24°37	9°37	16°36	4° 5	13° 0	15°25	17°25	17°32	28°21	24°38	S 6
S 7	7 4 8	16°17'53	26°10	20°19	8°42	25°23	9°35	16°40	4° 8	12°59	15°25	17°25	17°29	28°27	24°38	S 7
M 8	7 8 5	17°19'04	11 ⁴ 14	21°59	8°26	26°10	9°32	16°45	4°11	12°58	15°25	17°25	17°26	28°34	24°38	M 8
T 9	7 12 2	18°20'14	26°27	23°39	8° 9	26°57	9°30	16°50	4°14	12°56	15°26	17°25	17°22	28°41	24°39	T 9
W10	7 15 58	19°21'23	11 ⁴ 37	25°20	7°48	27°44	9°27	16°55	4°17	12°55	15°26	17°25	17°19	28°47	24°39	W10
T 11	7 19 55	20°22'32	26°37	27° 1	7°26	28°31	9°24	17° 0	4°20	12°54	15°26	17°24	17°16	28°54	24°39	T 11
F 12	7 23 51	21°23'41	11 ⁴ 18	28°42	7° 1	29°18	9°21	17° 6	4°23	12°52	15°27	17°24	17°13	29° 1	24°40	F 12
S 13	7 27 48	22°24'48	25°35	0 ⁴ 24	6°34	0 ⁴ 5	9°17	17°11	4°25	12°51	15°27	17°23	17°10	29° 7	24°40	S 13
S 14	7 31 44	23°25'55	9 ⁴ 25	2° 5	6° 5	0°52	9°14	17°16	4°28	12°50	15°27	17°23	17° 7	29°14	24°41	S 14
M15	7 35 41	24°27'01	22°50	3°47	5°35	1°39	9°10	17°21	4°31	12°49	15°27	17°D23	17° 3	29°21	24°41	M15
T 16	7 39 37	25°28'06	5 ⁴ 51	5°29	5° 3	2°25	9° 6	17°27	4°34	12°48	15°27	17°23	17° 0	29°27	24°42	T 16
W17	7 43 34	26°29'10	18°31	7°11	4°29	3°12	9° 2	17°32	4°36	12°47	15°27	17°23	16°57	29°34	24°43	W17
T 18	7 47 31	27°30'13	0 ⁴ 54	8°53	3°54	3°59	8°58	17°38	4°39	12°45	15°R27	17°24	16°54	29°41	24°43	T 18
F 19	7 51 27	28°31'16	13° 3	10°35	3°18	4°46	8°53	17°44	4°41	12°44	15°27	17°25	16°51	29°47	24°44	F 19
S 20	7 55 24	29°32'17	25° 3	12°16	2°42	5°33	8°49	17°49	4°44	12°43	15°27	17°27	16°48	29°54	24°45	S 20
S 21	7 59 20	0 ⁴ 33'17	6 ⁴ 56	13°57	2° 5	6°19	8°44	17°55	4°46	12°42	15°27	17°27	16°44	0 ⁴ 1	24°46	S 21
M22	8 3 17	1°34'17	18°45	15°37	1°28	7° 6	8°39	18° 1	4°49	12°41	15°27	17°R28	16°41	0° 7	24°47	M22
T 23	8 7 13	2°35'16	0 ⁴ 23	17°15	0°51	7°53	8°34	18° 7	4°51	12°40	15°27	17°27	16°38	0°14	24°48	T 23
W24	8 11 10	3°36'13	12°22	18°52	0°14	8°40	8°29	18°13	4°54	12°39	15°27	17°26	16°35	0°20	24°49	W24
T 25	8 15 6	4°37'10	24°13	20°28	29°38	9°26	8°23	18°19	4°56	12°38	15°26	17°24	16°32	0°27	24°51	T 25
F 26	8 19 3	5°38'06	6 ⁴ 9	22° 1	29° 2	10°13	8°18	18°25	4°58	12°37	15°26	17°21	16°28	0°34	24°52	F 26
S 27	8 23 0	6°39'01	18°13	23°31	28°28	10°59	8°12	18°31	5° 0	12°37	15°26	17°18	16°25	0°40	24°53	S 27
S 28	8 26 56	7°39'55	0 ⁴ 25	24°58	27°55	11°46	8° 6	18°37	5° 3	12°36	15°25	17°14	16°22	0°47	24°54	S 28
M29	8 30 53	8°40'48	12°51	26°20	27°24	12°33	8° 0	18°44	5° 5	12°35	15°25	17°12	16°19	0°54	24°56	M29
T 30	8 34 49	9°41'41	25°31	27°39	26°54	13°19	7°54	18°50	5° 7	12°34	15°25	17°10	16°16	1° 0	24°57	T 30
W31	8 38 46	10 ⁴ 42'33	8 ⁴ 30	28 ⁴ 52	26°36	14°18	6	18°56	5° 9	12°33	15°24	17°D 9	16°13	1° 7	24°59	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23s 5	6s12	5s 9	24s53	1s50	16s15	1n45	15s40	1s 7	9n 1	1n11	7s23	2s 6	20s49	0n 8	20n54
T 2	23 0	11 20	5 18	24 48	1 53	16 1	1 59	15 25	1 6	9 1	1 11	7 21	2 5	20 49	0 8	20 54
W 3	22 55	16 8	5 11	24 41	1 56	15 48	2 13	15 9	1 6	9 2	1 11	7 19	2 5	20 50	0 8	20 54
T 4	22 49	20 19	4 47	24 33	1 59	15 36	2 28	14 53	1 5	9 3	1 11	7 17	2 5	20 51	0 8	20 54
F 5	22 43	23 29	4 6	24 23	2 1	15 23	2 43	14 37	1 5	9 4	1 12	7 15	2 5	20 51	0 8	20 54
S 6	22 36	25 16	3 8	24 12	2 3	15 11	2 58	14 21	1 4	9 5	1 12	7 13	2 5	20 52	0 8	20 54
S 7	22 29	25 21	1 56	23 59	2 4	15 0	3 13	14 4	1 3	9 6	1 12	7 11	2 5	20 52	0 8	20 54
M 8	22 21	23 34	0 34	23 44	2 5	14 49	3 29	13 48	1 3	9 7	1 12	7 9	2 5	20 53	0 8	20 53
T 9	22 13	20 5	0n50	23 28	2 6	14 39	3 44	13 31	1 2	9 9	1 13	7 7	2 4	20 53	0 8	20 53
W10	22 5	15 14	2 11	23 10	2 6	14 29	4 0	13 14	1 2	9 10	1 13	7 5	2 4	20 54	0 8	20 53
T 11	21 56	9 30	3 21	22 51	2 6	14 20	4 15	12 58	1 1	9 11	1 13	7 3	2 4	20 54	0 8	20 53
F 12	21 46	3 22	4 17	22 30	2 6	14 11	4 30	12 41	1 0	9 13	1 14	7 0	2 4	20 55	0 8	20 53
S 13	21 36	2n45	4 55	22 7	2 4	14 3	4 45	12 24	1 0	9 14	1 14	6 58	2 4	20 56	0 8	20 53
S 14	21 26	8 34	5 15	21 43	2 3	13 56	5 0	12 6	0 59	9 16	1 14	6 56	2 4	20 56	0 8	20 53
M15	21 16	13 47	5 17	21 17	2 1	13 49	5 14	11 49	0 59	9 18	1 14	6 54	2 4	20 57	0 8	20 53
T 16	21 5	18 14	5 2	20 50	1 58	13 43	5 28	11 32	0 58	9 19	1 15	6 52	2 4	20 57	0 8	20 53
W17	20 53	21 43	4 32	20 51	1 55	13 38	5 42	11 14	0 57	9 21	1 15	6 49	2 3	20 58	0 8	20 52
T 18	20 41	24 8	3 51	19 51	1 51	13 33	5 55	10 56	0 57	9 23	1 15	6 47	2 3	20 58	0 8	20 52
F 19	20 29	25 22	3 0	19 19	1 46	13 29	6 8	10 39	0 56	9 25	1 15	6 45	2 3	20 58	0 8	20 52
S 20	20 17	25 24	2 1	18 46	1 41	13 25	6 20	10 21	0 55	9 27	1 16	6 42	2 3	20 59	0 8	20 52
S 21	20 4	24 16	0 58	18 11	1 35	13 22	6 31	10 3	0 55	9 29	1 16	6 40	2 3	20 59	0 8	20 52
M22	19 50	22 3	0s 7	17 35	1 29	13 20	6 41	9 45	0 54	9 31	1 16	6 38	2 3	21 0	0 8	20 52
T 23	19 37	18 54	1 12	16 59	1 21	13 18	6 51	9 27	0 53	9 33	1 16	6 35	2 3	21 0	0 8	20 52
W24	19 23	14 59	2 14	16 21	1 13	13 17	7 0	9 9	0 53	9 35	1 16	6 33	2 3	21 1	0 8	20 52
T 25	19 8	10 29	3 10	15 42	1 4	13 17	7 8	8 51	0 52	9 37	1 17	6 30	2 2	21 1	0 8	20 52
F 26	18 53	5 35	3 58	15 3	0 54	13 17	7 15	8 33	0 51	9 40	1 17	6 28	2 2	21 2	0 8	20 52
S 27	18 38	0 26	4 36	14 23	0 44	13 17	7 21	8 14	0 51	9 42	1 17	6 25	2 2	21 2	0 8	20 52
S 28	18 23	4s47	5 2	13 44	0 32	13 19	7 27	7 56	0 50	9 44	1 17	6 23	2 2	21 2	0 8	20 52
M29	18 7	9 54	5 14	13 4	0 20	13 20	7 31	7 37	0 49	9 47	1 18	6 20	2 2	21 3	0 8	20 52
T 30	17 51	14 43	5 12	12 25	0 7	13 22	7 35	7 19	0 49	9 49	1 18	6 18	2 2	21 3	0 8	20 51
W31	17s35	18s59	4s54	11s47	0n 7	13s24	7n38	7s 0	0s48	9n52	1n18	6s15	2s 2	21s 3	0n 8	20n51

Julian Day Number = 2353294.5, Delta T = 11.36 sec
Ecliptic obliquity = 23°28'30", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°59'06", Lahiri = 20°06'06"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1731

geocentric

FEBRUARY 1731

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 42	11 ⁴³ 23	21 ¹¹ 51	29 ⁵⁹ 59	26°R 0	14 ⁵² 52	7°R42	19 ³ 3	5 ¹¹ 11	12°R33	15°R24	17 ³ 9	16 ³ 9	1 ¹⁴ 14	25 ⁰ 0	T 1
F 2	8 46 39	12°44'14	5 ³⁶ 36	0 ⁵⁹ 59	25 ³⁶ 36	15°39	7 ³⁵ 35	19° 9	5°13	12 ³² 32	15 ²³ 23	17°11	16° 6	1°20	25° 2	F 2
S 3	8 50 35	13°45'03	19°45	1°51	25°14	16°25	7°28	19°16	5°15	12°31	15°23	17°12	16° 3	1°27	25° 4	S 3
S 4	8 54 32	14°45'51	4 ³ 19	2°35	24°55	17°12	7°22	19°22	5°17	12°31	15°22	17°14	16° 0	1°34	25° 5	S 4
M 5	8 58 29	15°46'38	19°12	3°10	24°38	17°58	7°15	19°29	5°18	12°30	15°22	17°R14	15°57	1°40	25° 7	M 5
T 6	9 2 25	16°47'24	4 ²⁰ 20	3°35	24°24	18°44	7° 8	19°35	5°20	12°30	15°21	17°13	15°54	1°47	25° 9	T 6
W 7	9 6 22	17°48'09	19°32	3°50	24°12	19°31	7° 1	19°42	5°22	12°29	15°20	17°11	15°50	1°54	25°11	W 7
T 8	9 10 18	18°48'52	4 ⁴⁰ 40	3°R54	24° 2	20°17	6°54	19°49	5°23	12°29	15°20	17° 7	15°47	2° 0	25°13	T 8
F 9	9 14 15	19°49'34	19°34	3°48	23°55	21° 3	6°47	19°55	5°25	12°28	15°19	17° 2	15°44	2° 7	25°15	F 9
S 10	9 18 11	20°50'14	4 ⁵ 5	3°31	23°51	21°50	6°39	20° 2	5°27	12°28	15°18	16°57	15°41	2°14	25°17	S 10
S 11	9 22 8	21°50'53	18° 8	3° 4	23°D49	22°36	6°32	20° 9	5°28	12°27	15°17	16°52	15°38	2°20	25°19	S 11
M12	9 26 4	22°51'30	1 ⁸ 43	2°27	23°49	23°22	6°25	20°16	5°30	12°27	15°16	16°48	15°34	2°27	25°21	M12
T 13	9 30 1	23°52'05	14°50	1°42	23°52	24° 8	6°17	20°23	5°31	12°27	15°16	16°46	15°31	2°33	25°24	T 13
W14	9 33 58	24°52'38	27°32	0°49	23°57	24°54	6°10	20°30	5°32	12°26	15°15	16°D46	15°28	2°40	25°26	W14
T 15	9 37 54	25°53'10	9 ¹¹ 53	29 ⁵⁰ 50	24° 4	25°41	6° 2	20°37	5°34	12°26	15°14	16°47	15°25	2°47	25°28	T 15
F 16	9 41 51	26°53'39	21°58	28°47	24°14	26°27	5°54	20°44	5°35	12°26	15°13	16°48	15°22	2°53	25°30	F 16
S 17	9 45 47	27°54'07	3 ⁵³ 53	27°41	24°25	27°13	5°47	20°51	5°36	12°26	15°12	16°50	15°19	3° 0	25°33	S 17
S 18	9 49 44	28°54'33	15°41	26°34	24°39	27°59	5°39	20°58	5°37	12°26	15°11	16°R51	15°15	3° 7	25°35	S 18
M19	9 53 40	29°54'57	27°27	25°28	24°55	28°45	5°31	21° 5	5°38	12°26	15°10	16°50	15°12	3°13	25°38	M19
T 20	9 57 37	0 ⁵⁵ 20	9 ¹¹ 53	24°24	25°13	29°31	5°23	21°12	5°40	12°25	15° 9	16°47	15° 9	3°20	25°40	T 20
W21	10 1 33	1°55'40	21° 7	23°23	25°33	0 ¹⁶ 16	5°15	21°19	5°41	12°25	15° 8	16°43	15° 6	3°27	25°43	W21
T 22	10 5 30	2°55'59	3 ⁶ 6	22°28	25°55	1° 2	5° 7	21°26	5°41	12°D25	15° 7	16°36	15° 3	3°33	25°45	T 22
F 23	10 9 27	3°56'16	15°12	21°38	26°19	1°48	5° 0	21°34	5°42	12°25	15° 5	16°27	15° 0	3°40	25°48	F 23
S 24	10 13 23	4°56'31	27°28	20°54	26°44	2°34	4°52	21°41	5°43	12°25	15° 4	16°18	14°56	3°47	25°51	S 24
S 25	10 17 20	5°56'45	9 ⁵⁴ 54	20°18	27°11	3°20	4°44	21°48	5°44	12°26	15° 3	16° 8	14°53	3°53	25°54	S 25
M26	10 21 16	6°56'57	22°31	19°48	27°40	4° 5	4°36	21°55	5°45	12°26	15° 2	16° 0	14°50	4° 0	25°56	M26
T 27	10 25 13	7°57'08	5 ²⁰ 20	19°25	28°10	4°51	4°28	22° 3	5°45	12°26	15° 1	15°53	14°47	4° 7	25°59	T 27
W28	10 29 9	8 ⁵⁷ 17	18 ²⁴ 24	19 ¹⁰ 10	28 ⁴² 42	5 ³⁶ 36	4 ²⁰ 20	22 ¹⁰ 10	5 ⁴⁶ 46	12 ²⁶ 26	14 ⁵⁹ 59	15 ⁴⁹ 49	14 ⁴⁴ 44	4 ¹³ 13	26 ⁰ 0	W28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s18	22s26	4s19	11s10	0n22	13s27	7n40	6s42	0s47	9n54	1n18	6s13	2s 2	21s 4	0n 8	20n51	1s29	9n58	17n23	22s22	22s30	18n36	9n36	0s 6	
F 2	17 1	24 42	3 30	10 34	0 37	13 30	7 41	6 23	0 47	9 57	1 18	6 10	2 2	21 4	0 8	20 51	1 29	9 59	17 24	22 22	22 30	18 34	9 36	0 6	
S 3	16 43	25 30	2 26	10 1	0 53	13 33	7 41	6 4	0 46	10 0	1 19	6 7	2 2	21 5	0 8	20 51	1 29	10 0	17 24	22 22	22 31	18 32	9 37	0	
S 4	16 26	24 35	1 11	9 30	1 9	13 37	7 41	5 46	0 45	10 2	1 19	6 5	2 2	21 5	0 8	20 51	1 29	10 0	17 25	22 22	22 31	18 30	9 37	0 7	
M 5	16 8	21 55	0n11	9 2	1 25	13 41	7 40	5 27	0 45	10 5	1 19	6 2	2 2	21 5	0 8	20 51	1 29	10 1	17 25	22 22	22 31	18 27	9 38	0 7	
T 6	15 50	17 42	1 33	8 37	1 42	13 45	7 38	5 8	0 44	10 8	1 19	5 59	2 1	21 6	0 8	20 51	1 29	10 2	17 26	22 22	22 32	18 25	9 39	0 7	
W 7	15 31	12 19	2 48	8 17	1 59	13 49	7 36	4 49	0 43	10 10	1 19	5 57	2 1	21 6	0 8	20 51	1 29	10 2	17 26	22 22	22 32	18 23	9 39	0 7	
T 8	15 12	6 13	3 51	8 0	2 15	13 54	7 33	4 30	0 43	10 13	1 19	5 54	2 1	21 6	0 8	20 51	1 29	10 3	17 27	22 23	22 32	18 20	9 40	0 7	
F 9	14 53	0n 7	4 37	7 47	2 31	13 58	7 29	4 11	0 42	10 16	1 20	5 51	2 1	21 6	0 8	20 51	1 29	10 4	17 27	22 23	22 33	18 18	9 41	0 7	
S 10	14 34	6 17	5 5	7 40	2 45	14 3	7 25	3 53	0 41	10 19	1 20	5 49	2 1	21 7	0 8	20 51	1 29	10 5	17 28	22 24	22 33	18 16	9 41	0 7	
S 11	14 15	11 56	5 12	7 36	2 59	14 8	7 21	3 34	0 40	10 22	1 20	5 46	2 1	21 7	0 8	20 51	1 29	10 5	17 28	22 25	22 33	18 13	9 42	0 7	
M12	13 55	16 48	5 2	7 38	3 12	14 12	7 16	3 15	0 40	10 25	1 20	5 43	2 1	21 7	0 8	20 51	1 29	10 6	17 29	22 25	22 34	18 11	9 43	0 7	
T 13	13 35	20 42	4 36	7 44	3 22	14 17	7 11	2 56	0 39	10 28	1 20	5 40	2 1	21 7	0 8	20 51	1 29	10 7	17 29	22 25	22 34	18 9	9 43	0 7	
W14	13 15	23 29	3 57	7 55	3 31	14 22	7 5	2 37	0 38	10 31	1 20	5 37	2 1	21 8	0 8	20 51	1 29	10 8	17 30	22 25	22 35	18 6	9 44	0 7	
T 15	12 55	25 4	3 8	8 9	3 38	14 26	6 59	2 18	0 38	10 34	1 20	5 35	2 1	21 8	0 8	20 51	1 29	10 8	17 30	22 25	22 35	18 4	9 45	0 7	
F 16	12 34	25 25	2 11	8 27	3 42	14 31	6 53	1 59	0 37	10 36	1 21	5 32	2 1	21 8	0 8	20 51	1 29	10 9	17 31	22 25	22 35	18 2	9 46	0 7	
S 17	12 13	24 35	1 10	8 47	3 44	14 35	6 47	1 40	0 36	10 39	1 21	5 29	2 1	21 8	0 8	20 51	1 29	10 10	17 31	22 25	22 36	17 59	9 46	0 8	
S 18	11 52	22 39	0 6	9 10	3 44	14 40	6 40	1 21	0 36	10 42	1 21	5 26	2 1	21 9	0 8	20 51	1 28	10 11	17 32	22 25	22 36	17 57	9 47	0 8	
M19	11 31	19 46	0s57	9 34	3 42	14 44	6 33	1 2	0 35	10 45	1 21	5 23	2 1	21 9	0 8	20 51	1 28	10 12	17 32	22 25	22 36	17 55	9 48	0 8	
T 20	11 10	16 4	1 59	10 0	3 37	14 48	6 26	0 43	0 34	10 48	1 21	5 21	2 1	21 9	0 8	20 51	1 28	10 12	17 32	22 25	22 37	17 52	9 49	0 8	
W21	10 48	11 43	2 55	10 25	3 31	14 51	6 19	0 24	0 33	10 51	1 21	5 18	2 1	21 9	0 8	20 52	1 28	10 13	17 33	22 26	22 37	17 50	9 50	0 8	
T 22	10 27	6 54	3 44	10 51	3 23	14 55	6 11	0 5	0 33	10 54	1 21	5 15	2 1	21 9	0 8	20 52	1 28	10 14	17 33	22 27	22 37	17 48	9 51	0 8	
F 23	10 5	1 48	4 23	11 16	3 13	14 58	6 4	0n14	0 32	10 57	1 21	5 12	2 1	21 9	0 8	20 52	1 28	10 15	17 34	22 28	22 38	17 45	9 52	0 8	
S 24	9 43	3s26	4 51	11 40	3 2	15 1	5 56	0 33	0 31	11 0	1 21	5 9	2 1	21 10	0 8	20 52	1 28	10 16	17 34	22 29	22 38	17 43	9 53	0 8	
S 25	9 21	8 36	5 5	12 3	2 50	15 4	5 48	0 51	0 31	11 3	1 21	5 6	2 1	21 10	0 8	20 52	1 28	10 16	17 35	22 30	22 39	17 41	9 54	0 8	
M26	8 58	13 29	5 5	12 24	2 38	15 6	5 40	1 10	0 30	11 6	1 22	5 3	2 1	21 10	0 8	20 52	1 28	10 17	17 35	22 31	22 39	17 38	9 54	0 8	
T 27	8 36	17 52	4 50	12 44	2 25	15 8	5 32	1 29	0 29	11 9	1 22	5 0	2 1	21 10	0 8	20 52	1 28	10 18	17 35	22 32	22 39	17 36	9 55	0 8	
W28	8s13	21s28	4s19	13s 1	2n11	15s10	5n24	1n48	0s28	11n12	1n22	4s57	2s 1	21s10	0n 8	20n52	1s28	10n19	17n36	22s32	22s40	17n34	9n56	0s 8	

Julian Day Number = 2353325.5, Delta T = 11.37 sec

Ecliptic obliquity = 23°28'30, Nutation = 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°59'10, Lahiri =

ASTRODIENST EPHEMERIS for the year 1731
geocentric

MARCH 1731

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 33 6	9♈57'24	1♌43	19°R 1	29♊15	6♋22	4°R13	22♈17	5♉47	12♐26	14°R58	15°R47	14♑40	4♒20	26♋5	T 1
F 2	10 37 2	10°57'30	15°19	18°D59	29°49	7° 8	4♎5	22°25	5°47	12°27	14♑57	15°D47	14°37	4°27	26° 8	F 2
S 3	10 40 59	11°57'34	29°15	19♋3	0♋25	7°53	3°57	22°32	5°48	12°27	14°55	15♑47	14°34	4°33	26°11	S 3
S 4	10 44 56	12°57'37	13♊30	19°13	1° 3	8°38	3°49	22°39	5°48	12°27	14°54	15°R48	14°31	4°40	26°14	S 4
M 5	10 48 52	13°57'38	28° 3	19°29	1°41	9°24	3°42	22°47	5°48	12°28	14°53	15°48	14°28	4°47	26°17	M 5
T 6	10 52 49	14°57'38	12♋50	19°51	2°21	10° 9	3°34	22°54	5°49	12°28	14°51	15°45	14°25	4°53	26°20	T 6
W 7	10 56 45	15°57'36	27°47	20°17	3° 1	10°55	3°26	23° 1	5°49	12°28	14°50	15°39	14°21	5° 0	26°23	W 7
T 8	11 0 42	16°57'31	12♈43	20°49	3°43	11°40	3°19	23° 9	5°49	12°29	14°49	15°32	14°18	5° 6	26°26	T 8
F 9	11 4 38	17°57'25	27°32	21°24	4°26	12°25	3°11	23°16	5°49	12°29	14°47	15°22	14°15	5°13	26°30	F 9
S 10	11 8 35	18°57'17	12♋3	22° 4	5°10	13°10	3° 4	23°24	5°49	12°30	14°46	15°12	14°12	5°20	26°33	S 10
S 11	11 12 31	19°57'07	26°11	22°48	5°55	13°55	2°57	23°31	5°R49	12°30	14°44	15° 2	14° 9	5°26	26°36	S 11
M12	11 16 28	20°56'54	9♊51	23°35	6°41	14°40	2°50	23°39	5°49	12°31	14°43	14°54	14° 5	5°33	26°39	M12
T 13	11 20 25	21°56'40	23° 4	24°25	7°27	15°26	2°43	23°46	5°49	12°32	14°41	14°48	14° 2	5°40	26°43	T 13
W14	11 24 21	22°56'23	5♐50	25°19	8°15	16°11	2°35	23°53	5°49	12°32	14°40	14°44	13°59	5°46	26°46	W14
T 15	11 28 18	23°56'04	18°15	26°16	9° 3	16°55	2°29	24° 1	5°49	12°33	14°38	14°43	13°56	5°53	26°49	T 15
F 16	11 32 14	24°55'43	0♑21	27°15	9°52	17°40	2°22	24° 8	5°49	12°34	14°37	14°D43	13°53	6° 0	26°53	F 16
S 17	11 36 11	25°55'19	12°16	28°18	10°42	18°25	2°15	24°16	5°48	12°35	14°35	14°R43	13°50	6° 6	26°56	S 17
S 18	11 40 7	26°54'53	24° 4	29°22	11°32	19°10	2° 8	24°23	5°48	12°35	14°33	14°43	13°46	6°13	27° 0	S 18
M19	11 44 4	27°54'25	5♒51	0♈29	12°23	19°55	2° 2	24°31	5°48	12°36	14°32	14°41	13°43	6°20	27° 3	M19
T 20	11 48 0	28°53'55	17°41	1°39	13°15	20°40	1°56	24°38	5°47	12°37	14°30	14°36	13°40	6°26	27° 7	T 20
W21	11 51 57	29°53'22	29°38	2°50	14° 8	21°24	1°49	24°46	5°47	12°38	14°29	14°29	13°37	6°33	27°10	W21
T 22	11 55 54	0♋52'47	11♎45	4° 4	15° 1	22° 9	1°43	24°53	5°46	12°39	14°27	14°19	13°34	6°40	27°14	T 22
F 23	11 59 50	1°52'10	24° 4	5°19	15°55	22°53	1°37	25° 0	5°46	12°40	14°25	14° 7	13°31	6°46	27°17	F 23
S 24	12 3 47	2°51'30	6♑35	6°36	16°49	23°38	1°31	25° 8	5°45	12°41	14°24	13°54	13°27	6°53	27°21	S 24
S 25	12 7 43	3°50'49	19°19	7°56	17°44	24°22	1°26	25°15	5°44	12°42	14°22	13°40	13°24	7° 0	27°24	S 25
M26	12 11 40	4°50'06	2♐15	9°17	18°39	25° 7	1°20	25°23	5°44	12°43	14°20	13°28	13°21	7° 6	27°28	M26
T 27	12 15 36	5°49'21	15°22	10°39	19°35	25°51	1°15	25°30	5°43	12°44	14°19	13°18	13°18	7°13	27°32	T 27
W28	12 19 33	6°48'34	28°41	12° 4	20°32	26°36	1° 9	25°37	5°42	12°45	14°17	13°11	13°15	7°20	27°35	W28
T 29	12 23 29	7°47'46	12♌10	13°30	21°29	27°20	1° 4	25°45	5°41	12°46	14°15	13° 7	13°11	7°26	27°39	T 29
F 30	12 27 26	8°46'55	25°51	14°57	22°26	28° 4	0°59	25°52	5°40	12°47	14°14	13° 5	13° 8	7°33	27°43	F 30
S 31	12 31 23	9♋46'03	9♊43	16♈27	23♋24	28♋48	0♎54	25♈59	5♉39	12♐49	14♑12	13♑5	13♊5	7♒40	27♋47	S 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	decl	lat
T 1	7s51	24s 2	3s34	13s17	1n57	15s11	5n16	2n 6	0s28	11n15	1n22	4s55	2s 1	21s10	0n 8	20n52	1s28	10n20	17n36	22s32	22s40	17n31	9n57	0s 8		
F 2	7 28	25 15	2 36	13 31	1 44	15 12	5 8	2 25	0 27	11 18	1 22	4 52	2 1	21 10	0 8	20 52	1 28	10 21	17 36	22 32	22 40	17 29	9 58	0 9		
S 3	7 5	24 56	1 28	13 43	1 30	15 12	5 0	2 44	0 26	11 21	1 22	4 49	2 1	21 10	0 8	20 52	1 28	10 21	17 37	22 32	22 41	17 26	9 59	0 9		
S 4	6 42	23 0	0 12	13 52	1 16	15 13	4 52	3 2	0 26	11 23	1 22	4 46	2 1	21 11	0 8	20 52	1 28	10 22	17 37	22 32	22 41	17 24	10 0	0 9		
M 5	6 19	19 31	1n 5	14 0	1 3	15 12	4 43	3 21	0 25	11 26	1 22	4 43	2 1	21 11	0 8	20 52	1 28	10 23	17 37	22 32	22 41	17 22	10 1	0 9		
T 6	5 56	14 45	2 19	14 6	0 49	15 12	4 35	3 39	0 24	11 29	1 22	4 40	2 1	21 11	0 8	20 53	1 28	10 24	17 38	22 33	22 42	17 19	10 2	0 9		
W 7	5 33	9 3	3 25	14 10	0 36	15 11	4 27	3 58	0 24	11 32	1 22	4 37	2 1	21 11	0 8	20 53	1 28	10 25	17 38	22 33	22 42	17 17	10 4	0 9		
T 8	5 9	2 51	4 16	14 12	0 24	15 9	4 19	4 16	0 23	11 35	1 22	4 34	2 1	21 11	0 8	20 53	1 27	10 25	17 38	22 34	22 42	17 14	10 5	0 9		
F 9	4 46	3n26	4 49	14 12	0 12	15 7	4 11	4 34	0 22	11 37	1 22	4 31	2 1	21 11	0 8	20 53	1 27	10 26	17 39	22 35	22 43	17 12	10 6	0 9		
S 10	4 23	9 25	5 3	14 11	0s 0	15 5	4 3	4 53	0 21	11 40	1 22	4 28	2 1	21 11	0 8	20 53	1 27	10 27	17 39	22 36	22 43	17 10	10 7	0 9		
S 11	3 59	14 45	4 58	14 7	0 12	15 2	3 55	5 11	0 21	11 43	1 22	4 25	2 1	21 11	0 8	20 53	1 27	10 28	17 39	22 38	22 43	17 7	10 8	0 9		
M12	3 36	19 9	4 36	14 2	0 23	14 58	3 47	5 29	0 20	11 45	1 22	4 22	2 1	21 11	0 8	20 53	1 27	10 29	17 40	22 38	22 44	17 5	10 9	0 9		
T 13	3 12	22 25	3 59	13 55	0 33	14 54	3 39	5 47	0 19	11 48	1 22	4 19	2 1	21 11	0 8	20 53	1 27	10 29	17 40	22 39	22 44	17 2	10 10	0 9		
W14	2 48	24 27	3 12	13 47	0 43	14 50	3 31	6 5	0 19	11 50	1 22	4 17	2 1	21 11	0 8	20 54	1 27	10 30	17 40	22 40	22 44	17 0	10 11	0 9		
T 15	2 25	25 13	2 16	13 37	0 53	14 45	3 23	6 23	0 18	11 53	1 22	4 14	2 1	21 11	0 8	20 54	1 27	10 31	17 40	22 40	22 45	16 58	10 12	0 9		
F 16	2 1	24 44	1 16	13 25	1 12	14 40	3 15	6 41	0 17	11 55	1 22	4 11	2 1	21 11	0 8	20 54	1 27	10 32	17 40	22 40	22 45	16 55	10 14	0 10		
S 17	1 37	23 7	0 13	13 12	1 11	14 34	3 7	6 59	0 17	11 58	1 22	4 8	2 1	21 11	0 8	20 54	1 27	10 33	17 41	22 40	22 45	16 53	10 15	0 10		
S 18	1 14	20 31	0s50	12 57	1 19	14 28	3 0	7 16	0 16	12 0	1 22	4 5	2 1	21 11	0 8	20 54	1 27	10 33	17 41	22 40	22 46	16 50	10 16	0 10		
M19	0 50	17 4	1 50	12 40	1 27	14 22	2 52	7 34	0 15	12 2	1 22	4 2	2 1	21 11	0 8	20 54	1 27	10 34	17 41	22 40	22 46	16 48	10 17	0 10		
T 20	0 26	12 56	2 46	12 22	1 34	14 14	2 44	7 51	0 14	12 4	1 21	3 59	2 1	21 10	0 8	20 55	1 27	10 35	17 41	22 40	22 46	16 45	10 18	0 10		
W21	0 3	8 16	3 34	12 3	1 41	14 7	2 37	8 9	0 14	12 7	1 21	3 56	2 1	21 10	0 8	20 55	1 27	10 36	17 41	22 41	22 47	16 43	10 20	0 10		
T 22	0n21	3 15	4 14	11 42	1 48	13 59	2 29	8 26	0 13	12 9	1 21	3 53	2 1	21 10	0 8	20 55	1 27	10 36	17 42	22 42	22 47	16 41	10 21	0 10		
F 23	0 45	1s58	4 43	11 20	1 53	13 50	2 22	8 43	0 12	12 11	1 21	3 50	2 1	21 10	0 8	20 55	1 27	10 37	17 42	22 44	22 47	16 38	10 22	0 10		
S 24	1 8	7 11	4 58	10 56	1 59	13 41	2 15	9 0	0 12	12 13	1 21	3 47	2 1	21 10	0 8	20 55	1 27	10 38	17 42	22 45	22 48	16 36	10 23	0 10		
S 25	1 32	12 11	4 59	10 31	2 4	13 31	2 7	9 17	0 11	12 15	1 21	3 45	2 1	21 10	0 8	20 55	1 27	10 39	17 42	22 46	22 48	16 33	10 24	0 10		
M26	1 55	16 43	4 45	10 5	2 8	13 21	2 0	9 34	0 10	12 17	1 21	3 42	2 1	21 10	0 8	20 56	1 26	10 39	17 42	22 48	22 48	16 31	10 26	0 10		
T 27	2 19	20 32	4 15	9 37	2 12	13 10	1 53	9 51	0 10	12 19	1 21	3 39	2 1	21 10	0 8	20 56	1 26	10 40	17 42	22 49	22 49	16 28	10 27	0 10		
W28	2 42	23 20	3 32	9 8	2 16	12 59	1 46	10 8	0 9	12 20	1 21	3 36	2 1	21 10	0 8	20 56	1 26	10 41	17 42	22 49	22 49	16 26	10 28	0 10		
T 29	3 6	24 51	2 36	8 38	2 19	12 48	1 39	10 25	0 8	12 22	1 21	3 33	2 1	21 9	0 8	20 56	1 26	10 42	17 42	22 50	22 49	16 23	10 29	0 11		
F 30	3 29	24 54	1 30	8 7	2 22	12 36	1 32	10 41	0 8	12 24	1 21	3 30	2 2	21 9	0 8	20 56	1 26	10 42	17 43	22 50	22 50	16 21	10 31	0 11		
S 31	3n52	23s25	0s18	7s34	2s24	12s23	1n26	10n57	0s 7	12n25	1n21	3s27	2s 2	21s 9	0n 8	20n57	1s26	10n43	17n43	22s50	22s50	16n19	10n32	0s11		

ASTRODIENST EPHEMERIS for the year 1731

geocentric

APRIL 1731

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 35 19	10°45'09	23°47	17°57	24°22	29°32	0°R50	26°7	5°R38	12°II50	14°R10	13°R 5	13°3 2	7°46	27°V50	S 1
M 2	12 39 16	11°44'13	8°3	19°30	25°21	0°17	0°M45	26°14	5°R37	12°51	14°9	13°3 3	12°59	7°53	27°54	M 2
T 3	12 43 12	12°43'16	22°28	21° 4	26°20	1° 1	0°41	26°21	5°36	12°52	14° 7	13° 0	12°56	8° 0	27°58	T 3
W 4	12 47 9	13°42'17	7°0	22°39	27°20	1°45	0°37	26°28	5°35	12°54	14° 5	12°54	12°52	8° 6	28° 2	W 4
T 5	12 51 5	14°41'15	21°33	24°16	28°19	2°29	0°33	26°36	5°33	12°55	14° 4	12°44	12°49	8°13	28° 5	T 5
F 6	12 55 2	15°40'12	6°0	25°54	29°20	3°12	0°29	26°43	5°32	12°56	14° 2	12°33	12°46	8°20	28° 9	F 6
S 7	12 58 58	16°39'07	20°15	27°34	0°X20	3°56	0°25	26°50	5°31	12°58	14° 0	12°21	12°43	8°26	28°13	S 7
S 8	13 2 55	17°38'00	4°12	29°16	1°21	4°40	0°22	26°57	5°30	12°59	13°59	12° 9	12°40	8°33	28°17	S 8
M 9	13 6 51	18°36'51	17°47	0°Y59	2°22	5°24	0°18	27° 4	5°28	13° 1	13°57	11°59	12°37	8°39	28°21	M 9
T 10	13 10 48	19°35'40	0°II57	2°43	3°24	6° 8	0°15	27°11	5°27	13° 2	13°55	11°51	12°33	8°46	28°24	T 10
W11	13 14 45	20°34'26	13°44	4°30	4°25	6°51	0°12	27°18	5°25	13° 4	13°54	11°46	12°30	8°53	28°28	W11
T 12	13 18 41	21°33'11	26°10	6°17	5°27	7°35	0° 9	27°25	5°24	13° 5	13°52	11°43	12°27	8°59	28°32	T 12
F 13	13 22 38	22°31'53	8°19	8° 6	6°30	8°18	0° 7	27°32	5°22	13° 7	13°50	11°D43	12°24	9° 6	28°36	F 13
S 14	13 26 34	23°30'33	20°15	9°57	7°32	9° 2	0° 4	27°39	5°21	13° 8	13°49	11°R43	12°21	9°13	28°40	S 14
S 15	13 30 31	24°29'10	2°12	11°50	8°35	9°45	0° 2	27°46	5°19	13°10	13°47	11°42	12°17	9°19	28°44	S 15
M16	13 34 27	25°27'46	13°54	13°44	9°38	10°29	29°159	27°53	5°17	13°11	13°45	11°41	12°14	9°26	28°48	M16
T 17	13 38 24	26°26'19	25°47	15°39	10°42	11°12	29°58	28° 0	5°15	13°13	13°44	11°37	12°11	9°33	28°52	T 17
W18	13 42 20	27°24'50	7°M48	17°36	11°45	11°55	29°56	28° 7	5°14	13°15	13°42	11°31	12° 8	9°39	28°55	W18
T 19	13 46 17	28°23'19	20° 2	19°35	12°49	12°39	29°55	28°14	5°12	13°16	13°40	11°23	12° 5	9°46	28°59	T 19
F 20	13 50 14	29°21'46	2°13	21°35	13°53	13°22	29°54	28°21	5°10	13°18	13°39	11°12	12° 2	9°53	29° 3	F 20
S 21	13 54 10	0°20'10	15°16	23°37	14°57	14° 5	29°52	28°27	5° 8	13°20	13°37	11° 0	11°58	9°59	29° 7	S 21
S 22	13 58 7	1°18'33	28°18	25°40	16° 2	14°48	29°51	28°34	5° 6	13°22	13°36	10°49	11°55	10° 6	29°11	S 22
M23	14 2 3	2°16'54	11°M35	27°44	17° 6	15°31	29°51	28°41	5° 4	13°23	13°34	10°38	11°52	10°13	29°15	M23
T 24	14 6 0	3°15'14	25° 6	29°50	18°11	16°14	29°50	28°47	5° 2	13°25	13°32	10°29	11°49	10°19	29°19	T 24
W25	14 9 56	4°13'31	8°X48	1°B56	19°16	16°57	29°50	28°54	5° 0	13°27	13°31	10°23	11°46	10°26	29°23	W25
T 26	14 13 53	5°11'48	22°38	4° 4	20°22	17°40	29°49	29° 0	4°58	13°29	13°29	10°19	11°42	10°33	29°27	T 26
F 27	14 17 49	6°10'02	6°35	6°13	21°27	18°23	29°D49	29° 7	4°56	13°31	13°28	10°D18	11°39	10°39	29°30	F 27
S 28	14 21 46	7° 8'15	20°37	8°22	22°33	19° 6	29°50	29°13	4°54	13°32	13°26	10°18	11°36	10°46	29°34	S 28
S 29	14 25 43	8° 6'27	4°43	10°31	23°38	19°48	29°50	29°20	4°52	13°34	13°25	10°R18	11°33	10°53	29°38	S 29
M30	14 29 39	9° 4'37	18°52	12°B41	24°X44	20°B31	29°150	29°X26	4°X50	13°II36	13°123	10°318	11°330	10°159	29°V42	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	4n16	20s27	0n56	7s 0	2s25	12s10	1n19	11n14	0s 6	12n27	1n20	3s25	2s 2	21s 9	0n 8	20n57	1s26
M 2	4 39	16 13	2 8	6 24	2 26	11 57	1 13	11 30	0 6	12 28	1 20	3 22	2 2	21 9	0 8	20 57	1 26
T 3	5 2	11 1	3 12	5 48	2 27	11 43	1 6	11 46	0 5	12 30	1 20	3 19	2 2	21 8	0 8	20 57	1 26
W 4	5 25	5 10	4 4	5 10	2 27	11 29	1 0	12 2	0 4	12 31	1 20	3 16	2 2	21 8	0 8	20 57	1 26
T 5	5 48	0n56	4 40	4 32	2 27	11 14	0 53	12 18	0 4	12 33	1 20	3 13	2 2	21 8	0 8	20 58	1 26
F 6	6 11	6 57	4 58	3 52	2 26	10 59	0 47	12 33	0 3	12 34	1 20	3 11	2 2	21 8	0 8	20 58	1 26
S 7	6 33	12 31	4 58	3 11	2 25	10 44	0 41	12 49	0 2	12 35	1 20	3 8	2 2	21 8	0 8	20 58	1 26
S 8	6 56	17 18	4 39	2 29	2 23	10 28	0 35	13 4	0 2	12 36	1 20	3 5	2 2	21 7	0 8	20 58	1 26
M 9	7 18	21 4	4 5	1 45	2 20	10 11	0 29	13 20	0 1	12 37	1 19	3 2	2 2	21 7	0 8	20 58	1 26
T 10	7 41	23 36	3 18	1 1	2 18	9 55	0 24	13 35	0 0	12 38	1 19	3 0	2 3	21 7	0 8	20 59	1 26
W11	8 3	24 50	2 22	0 16	2 14	9 37	0 18	13 50	0n 0	12 39	1 19	2 57	2 3	21 7	0 8	20 59	1 26
T 12	8 25	24 47	1 21	0n30	2 10	9 20	0 12	14 5	0 1	12 40	1 19	2 54	2 3	21 6	0 8	20 59	1 26
F 13	8 47	23 31	0 18	1 18	2 6	9 2	0 7	14 19	0 2	12 41	1 19	2 51	2 3	21 6	0 8	20 59	1 26
S 14	9 9	21 12	0s45	2 6	2 1	8 44	0 2	14 34	0 2	12 41	1 19	2 49	2 3	21 6	0 8	21 0	1 26
S 15	9 30	18 0	1 46	2 55	1 56	8 25	0s 4	14 48	0 3	12 42	1 19	2 46	2 3	21 6	0 8	21 0	1 26
M16	9 52	14 6	2 42	3 44	1 50	8 6	0 9	15 3	0 4	12 43	1 18	2 43	2 3	21 5	0 8	21 0	1 25
T 17	10 13	9 38	3 31	4 35	1 43	7 47	0 14	15 17	0 4	12 43	1 18	2 41	2 3	21 5	0 8	21 0	1 25
W18	10 34	4 46	4 12	5 26	1 36	7 27	0 19	15 31	0 5	12 44	1 18	2 38	2 3	21 5	0 8	21 1	1 25
T 19	10 55	0s22	4 41	6 18	1 29	7 7	0 23	15 45	0 6	12 44	1 18	2 36	2 4	21 4	0 8	21 1	1 25
F 20	11 16	5 34	4 58	7 10	1 21	6 47	0 28	15 58	0 6	12 44	1 18	2 33	2 4	21 4	0 8	21 1	1 25
S 21	11 36	10 39	5 1	8 3	1 13	6 26	0 33	16 12	0 7	12 45	1 18	2 31	2 4	21 4	0 8	21 1	1 25
S 22	11 57	15 22	4 48	8 56	1 4	6 5	0 37	16 25	0 8	12 45	1 17	2 28	2 4	21 3	0 8	21 2	1 25
M23	12 17	19 26	4 20	9 49	0 55	5 44	0 42	16 39	0 8	12 45	1 17	2 25	2 4	21 3	0 8	21 2	1 25
T 24	12 37	22 34	3 36	10 43	0 46	5 23	0 46	16 52	0 9	12 45	1 17	2 23	2 4	21 3	0 8	21 2	1 25
W25	12 57	24 25	2 39	11 36	0 36	5 1	0 50	17 4	0 9	12 45	1 17	2 21	2 4	21 2	0 8	21 2	1 25
T 26	13 16	24 49	1 33	12 29	0 26	4 39	0 54	17 17	0 10	12 45	1 17	2 18	2 5	21 2	0 8	21 3	1 25
F 27	13 36	23 38	0 20	13 22	0 16	4 17	0 58	17 30	0 11	12 45	1 17	2 16	2 5	21 2	0 8	21 3	1 25
S 28	13 55	20 59	0n55	14 14	0 5	3 55	1 2	17 42	0 11	12 45	1 16	2 13	2 5	21 1	0 8	21 3	1 25
S 29	14 14	17 4	2 7	15 5	0n 6	3 32	1 5	17 54	0 12	12 44	1 16	2 11	2 5	21 1	0 8	21 3	1 25
M30	14n33	12s10	3n11	15n55	0n16	3s 9	1s 9	18n 6	0n13	12n44	1n16	2s 8	2s 5	21s 0	0n 8	21n 4	1s25

Julian Day Number = 2353384.5, Delta T = 11.40 sec
 Ecliptic obliquity = 23°28'30, Nutation = 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°59'18, Lahiri = 20°06'19Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1731
geocentric

MAY 1731

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 33 36	10♌ 2'45	3♋ 2	14♌50	25♋50	21♌14	29♌51	29♋32	4°R48	13♌38	13°R22	10°R16	11♌27	11♌ 6	29♋46	T 1
W 2	14 37 32	11° 0'52	17°13	17° 0	26°57	21°56	29°52	29°38	4°46	13°40	13°20	10♌12	11°23	11°13	29°50	W 2
T 3	14 41 29	11°58'58	1°20	19° 8	28° 3	22°39	29°53	29°45	4°44	13°42	13°19	10° 5	11°20	11°19	29°54	T 3
F 4	14 45 25	12°57'02	15°20	21°15	29°10	23°22	29°54	29°51	4°41	13°44	13°18	9°56	11°17	11°26	29°57	F 4
S 5	14 49 22	13°55'05	29° 9	23°22	0°Y16	24° 4	29°56	29°57	4°39	13°46	13°16	9°47	11°14	11°33	0♌ 1	S 5
S 6	14 53 18	14°53'06	12♌44	25°26	1°23	24°46	29°57	0°Y 3	4°37	13°48	13°15	9°38	11°11	11°39	0° 5	S 6
M 7	14 57 15	15°51'06	26° 2	27°29	2°30	25°29	29°59	0° 9	4°35	13°50	13°13	9°30	11° 8	11°46	0° 9	M 7
T 8	15 1 12	16°49'04	9♌ 0	29°30	3°37	26°11	0°11	0°15	4°32	13°52	13°12	9°24	11° 4	11°53	0°13	T 8
W 9	15 5 8	17°47'00	21°40	1♌28	4°44	26°53	0° 3	0°21	4°30	13°54	13°11	9°20	11° 1	11°59	0°16	W 9
T 10	15 9 5	18°44'55	4♌ 2	3°24	5°52	27°36	0° 5	0°26	4°28	13°56	13° 9	9°D19	10°58	12° 6	0°20	T 10
F 11	15 13 1	19°42'48	16° 9	5°17	6°59	28°18	0° 8	0°32	4°25	13°58	13° 8	9°19	10°55	12°13	0°24	F 11
S 12	15 16 58	20°40'39	28° 6	7° 7	8° 7	29° 0	0°11	0°38	4°23	14° 0	13° 7	9°20	10°52	12°19	0°27	S 12
S 13	15 20 54	21°38'29	9♌57	8°55	9°14	29°42	0°13	0°43	4°20	14° 2	13° 6	9°21	10°48	12°26	0°31	S 13
M14	15 24 51	22°36'17	21°47	10°39	10°22	0♌24	0°16	0°49	4°18	14° 5	13° 5	9°R22	10°45	12°33	0°35	M14
T 15	15 28 47	23°34'03	3♌41	12°20	11°30	1° 6	0°20	0°54	4°16	14° 7	13° 3	9°21	10°42	12°39	0°39	T 15
W16	15 32 44	24°31'47	15°44	13°58	12°38	1°48	0°23	1° 0	4°13	14° 9	13° 2	9°19	10°39	12°46	0°42	W16
T 17	15 36 41	25°29'30	28° 1	15°33	13°46	2°30	0°26	1° 5	4°11	14°11	13° 1	9°14	10°36	12°53	0°46	T 17
F 18	15 40 37	26°27'11	10♌36	17° 5	14°54	3°12	0°30	1°11	4° 8	14°13	13° 0	9° 9	10°33	12°59	0°49	F 18
S 19	15 44 34	27°24'51	23°30	18°33	16° 3	3°54	0°34	1°16	4° 6	14°15	12°59	9° 2	10°29	13° 6	0°53	S 19
S 20	15 48 30	28°22'29	6♌44	19°57	17°11	4°35	0°38	1°21	4° 3	14°17	12°58	8°55	10°26	13°13	0°57	S 20
M21	15 52 27	29°20'06	20°19	21°19	18°19	5°17	0°42	1°26	4° 1	14°20	12°57	8°49	10°23	13°19	1° 0	M21
T 22	15 56 23	0♌17'42	4♌12	22°36	19°28	5°59	0°47	1°31	3°58	14°22	12°56	8°44	10°20	13°26	1° 4	T 22
W23	16 0 20	1°15'17	18°18	23°50	20°37	6°40	0°51	1°36	3°56	14°24	12°55	8°41	10°17	13°33	1° 7	W23
T 24	16 4 16	2°12'50	2♌35	25° 1	21°45	7°22	0°56	1°41	3°53	14°26	12°54	8°D39	10°14	13°39	1°11	T 24
F 25	16 8 13	3°10'23	16°56	26° 8	22°54	8° 3	1° 0	1°46	3°51	14°28	12°53	8°39	10°10	13°46	1°14	F 25
S 26	16 12 10	4° 7'54	1♌19	27°11	24° 3	8°45	1° 5	1°50	3°48	14°31	12°52	8°41	10° 7	13°53	1°17	S 26
S 27	16 16 6	5° 5'25	15°38	28°11	25°12	9°26	1°11	1°55	3°46	14°33	12°51	8°42	10° 4	13°59	1°21	S 27
M28	16 20 3	6° 2'55	29°53	29° 6	26°21	10° 8	1°16	2° 0	3°43	14°35	12°50	8°R43	10° 1	14° 6	1°24	M28
T 29	16 23 59	7° 0'24	14♌ 0	29°58	27°30	10°49	1°21	2° 4	3°41	14°37	12°49	8°43	9°58	14°13	1°28	T 29
W30	16 27 56	7°57'52	27°58	0♌46	28°40	11°30	1°27	2° 9	3°38	14°39	12°49	8°42	9°54	14°19	1°31	W30
T 31	16 31 52	8♌55'20	11°Y45	1♌29	29°Y49	12♌12	1°11	2°Y13	3°36	14°42	12°48	8°39	9°51	14°26	1°34	T 31

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	
T 1	14n51	6s37 4n 3	16n44 0n27	2s46 1s12	18n18 0n13	12n44 1n16	2s 6 2s 5	21s 0 0n 8	21n 4 1s25	10n59 17n40	23s 5 22s59	15n 1 11n12	0s13		
W 2	15 9 0 45	4 41 17 32	0 37 2 23	1 16 18 30	0 14 12 43	1 16 2 4	2 6 21 0	0 8 21 4	1 25 10 59	17 39 23 5	22 59 14 58	11 13 0 13			
T 3	15 27 5n 8	5 1 18 18	0 48 1 59	1 19 18 42	0 14 12 43	1 16 2 1	2 6 20 59	0 8 21 4	1 25 11 0	17 39 23 5	22 59 14 56	11 15 0 13			
F 4	15 45 10 42	5 4 19 2	0 58 1 35	1 22 18 53	0 15 12 42	1 15 1 59	2 6 20 59	0 8 21 5	1 25 11 0	17 39 23 6	23 0 14 53	11 16 0 13			
S 5	16 2 15 40	4 48 19 44	1 8 1 12	1 25 19 4	0 16 12 41	1 15 1 57	2 6 20 58	0 8 21 5	1 25 11 0	17 38 23 7	23 0 14 51	11 17 0 13			
S 6	16 20 19 45	4 16 20 24	1 17 0 48	1 28 19 15	0 16 12 41	1 15 1 55	2 6 20 58	0 8 21 5	1 25 11 0	17 38 23 7	23 0 14 48	11 18 0 14			
M 7	16 37 22 42	3 31 21 1	1 26 0 24	1 31 19 26	0 17 12 40	1 15 1 52	2 6 20 58	0 8 21 6	1 25 11 1	17 38 23 8	23 0 14 46	11 20 0 14			
T 8	16 53 24 24	2 36 21 36	1 34 0n 1	1 34 19 37	0 17 12 39	1 15 1 50	2 7 20 57	0 8 21 6	1 25 11 1	17 38 23 8	23 1 14 43	11 21 0 14			
W 9	17 10 24 46	1 34 22 9	1 42 0 25	1 36 19 47	0 18 12 38	1 15 1 48	2 7 20 57	0 8 21 6	1 25 11 1	17 37 23 9	23 1 14 40	11 22 0 14			
T 10	17 26 23 53	0 28 22 39	1 49 0 49	1 39 19 57	0 19 12 37	1 14 1 46	2 7 20 56	0 8 21 6	1 25 11 1	17 37 23 9	23 1 14 38	11 23 0 14			
F 11	17 41 21 53	0s37 23 7	1 56 1 14	1 41 20 7	0 19 12 36	1 14 1 44	2 7 20 56	0 8 21 7	1 25 11 1	17 37 23 9	23 2 14 35	11 25 0 14			
S 12	17 57 18 56	1 40 23 32	2 2 1 38	1 43 20 17	0 20 12 35	1 14 1 42	2 7 20 55	0 8 21 7	1 25 11 2	17 36 23 9	23 2 14 33	11 26 0 14			
S 13	18 12 15 15	2 38 23 54	2 7 2 3	1 45 20 27	0 20 12 34	1 14 1 40	2 7 20 55	0 8 21 7	1 25 11 2	17 36 23 9	23 2 14 30	11 27 0 14			
M14	18 27 10 58	3 29 24 14	2 11 2 28	1 47 20 36	0 21 12 32	1 14 1 38	2 8 20 55	0 8 21 7	1 25 11 2	17 36 23 9	23 2 14 28	11 28 0 14			
T 15	18 42 6 15	4 12 24 32	2 14 2 53	1 49 20 46	0 21 12 31	1 14 1 36	2 8 20 54	0 8 21 8	1 24 11 2	17 35 23 9	23 3 14 25	11 29 0 14			
W16	18 56 1 16	4 44 24 47	2 17 3 18	1 51 20 55	0 22 12 30	1 13 1 34	2 8 20 54	0 8 21 8	1 24 11 2	17 35 23 9	23 3 14 22	11 31 0 14			
T 17	19 10 3s51	5 3 24 59	2 19 3 42	1 53 21 4	0 23 12 28	1 13 1 32	2 8 20 53	0 8 21 8	1 24 11 2	17 34 23 9	23 3 14 20	11 32 0 14			
F 18	19 23 8 56	5 9 25 10	2 20 4 7	1 54 21 12	0 23 12 27	1 13 1 30	2 8 20 53	0 8 21 9	1 24 11 2	17 34 23 10	23 3 14 17	11 33 0 15			
S 19	19 37 13 46	5 0 25 18	2 20 4 32	1 56 21 21	0 24 12 25	1 13 1 28	2 9 20 52	0 8 21 9	1 24 11 2	17 34 23 10	23 4 14 15	11 34 0 15			
S 20	19 50 18 6	4 34 25 24	2 19 4 57	1 57 21 29	0 24 12 24	1 13 1 26	2 9 20 52	0 8 21 9	1 24 11 2	17 33 23 10	23 4 14 12	11 35 0 15			
M21	20 2 21 35	3 52 25 29	2 18 5 22	1 59 21 37	0 25 12 22	1 13 1 24	2 9 20 51	0 8 21 9	1 24 11 2	17 33 23 11	23 4 14 9	11 37 0 15			
T 22	20 15 23 54	2 56 25 31	2 15 5 47	2 0 21 45	0 25 12 21	1 12 1 22	2 9 20 51	0 8 21 10	1 24 11 2	17 32 23 11	23 4 14 7	11 38 0 15			
W23	20 26 24 46	1 49 25 32	2 12 6 12	2 1 21 53	0 26 12 19	1 12 1 21	2 10 20 51	0 8 21 10	1 24 11 2	17 32 23 11	23 5 14 4	11 39 0 15			
T 24	20 38 24 0	0 33 25 31	2 8 6 36	2 2 22 0	0 27 12 17	1 12 1 19	2 10 20 50	0 8 21 10	1 24 11 2	17 31 23 11	23 5 14 2	11 40 0 15			
F 25	20 49 21 39	0n45 25 28	2 3 7 1	2 3 22 8	0 27 12 15	1 12 1 17	2 10 20 50	0 8 21 10	1 24 11 2	17 31 23 11	23 5 13 59	11 41 0 15			
S 26	21 0 17 56	2 1 25 24	1 57 7 26	2 3 22 15	0 28 12 13	1 12 1 15	2 10 20 49	0 7 21 11	1 24 11 2	17 31 23 11	23 5 13 56	11 42 0 15			
S 27	21 11 13 10	3 8 25 18	1 50 7 50	2 4 22 22	0 28 12 11	1 12 1 14	2 10 20 49	0 7 21 11	1 24 11 2	17 30 23 11	23 6 13 54	11 43 0 15			
M28	21 21 7 43	4 4 25 11	1 43 8 15	2 5 22 28	0 29 12 9	1 11 1 12	2 11 20 48	0 7 21 11	1 24 11 2	17 30 23 11	23 6 13 51	11 44 0 15			
T 29	21 31 1 56	4 44 25 3	1 35 8 39	2 5 22 35	0 29 12 7	1 11 1 11	2 11 20 48	0 7 21 11	1 24 11 2	17 29 23 11	23 6 13 49	11 45 0 15			
W30	21 40 3n53	5 7 24 54	1 25 9 4	2 5 22 41	0 30 12 5	1 11 1 9	2 11 20 47	0 7 21 12	1 24 11 2	17 29 23 11	23 6 13 46	11 46 0 16			
T 31	21n49 9n26	5n12 24n43	1n15 9n28	2s 6 22n47	0n30 12n 3	1n11 1s 8	2s11 20s47	0n 7 21n12	1s24 11n 1	17n28 23s12	23s 6 13n43	11n48 0s16			

Julian Day Number = 2353414.5, Delta T = 11.41 sec
Ecliptic obliquity = 23°28'29", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°59'22", Lahiri = 20°06'23Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1731

geocentric

JUNE 1731

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 35 49	9 ^{II} 52'47	25 ^V 21	2 [☾] 9	0 [♂] 58	12 ^{II} 53	1 [♂] 38	2 ^V 17	3 ^R 34	14 ^{II} 44	12 ^R 47	8 ^R 35	9 [☾] 48	14 ^Ω 33	1 [♂] 37	F 1
S 2	16 39 45	10°50'13	8 [♂] 45	2°44	2° 8	13°34	1°44	2°22	3 [♂] 31	14°46	12 [♂] 46	8 [♂] 31	9°45	14°39	1°41	S 2
S 3	16 43 42	11°47'39	21°55	3°15	3°17	14°15	1°50	2°26	3°29	14°48	12°46	8°27	9°42	14°46	1°44	S 3
M 4	16 47 39	12°45'03	4 ^{II} 50	3°42	4°27	14°56	1°57	2°30	3°26	14°51	12°45	8°23	9°39	14°53	1°47	M 4
T 5	16 51 35	13°42'27	17°30	4° 4	5°37	15°37	2° 3	2°34	3°24	14°53	12°45	8°21	9°35	14°59	1°50	T 5
W 6	16 55 32	14°39'51	29°57	4°21	6°46	16°18	2°10	2°38	3°21	14°55	12°44	8°19	9°32	15° 6	1°53	W 6
T 7	16 59 28	15°37'13	12 [☾] 10	4°34	7°56	16°59	2°16	2°41	3°19	14°57	12°43	8°D19	9°29	15°13	1°56	T 7
F 8	17 3 25	16°34'34	24°13	4°43	9° 6	17°40	2°23	2°45	3°16	15° 0	12°43	8°20	9°26	15°19	1°59	F 8
S 9	17 7 21	17°31'55	6 ^Ω 8	4°R47	10°16	18°21	2°30	2°49	3°14	15° 2	12°42	8°21	9°23	15°26	2° 2	S 9
S 10	17 11 18	18°29'14	17°58	4°46	11°26	19° 2	2°37	2°52	3°12	15° 4	12°42	8°23	9°20	15°33	2° 5	S 10
M 11	17 15 14	19°26'33	29°48	4°41	12°36	19°43	2°44	2°56	3° 9	15° 6	12°42	8°24	9°16	15°39	2° 8	M 11
T 12	17 19 11	20°23'51	11 [♂] 42	4°31	13°46	20°23	2°52	2°59	3° 7	15° 9	12°41	8°25	9°13	15°46	2°11	T 12
W 13	17 23 8	21°21'08	23°45	4°18	14°56	21° 4	2°59	3° 2	3° 5	15°11	12°41	8°R25	9°10	15°53	2°14	W 13
T 14	17 27 4	22°18'24	6 [♂] 1	4° 0	16° 6	21°45	3° 7	3° 5	3° 2	15°13	12°40	8°25	9° 7	15°59	2°17	T 14
F 15	17 31 1	23°15'39	18°35	3°39	17°17	22°25	3°15	3° 9	3° 0	15°15	12°40	8°24	9° 4	16° 6	2°20	F 15
S 16	17 34 57	24°12'53	1 [♂] 31	3°14	18°27	23° 6	3°22	3°12	2°58	15°17	12°40	8°22	9° 0	16°13	2°22	S 16
S 17	17 38 54	25°10'07	14°50	2°46	19°37	23°46	3°30	3°15	2°56	15°20	12°40	8°20	8°57	16°19	2°25	S 17
M 18	17 42 50	26° 7'20	28°33	2°16	20°48	24°27	3°38	3°17	2°53	15°22	12°40	8°19	8°54	16°26	2°28	M 18
T 19	17 46 47	27° 4'33	12 [♂] 40	1°44	21°58	25° 7	3°47	3°20	2°51	15°24	12°39	8°17	8°51	16°33	2°30	T 19
W 20	17 50 44	28° 1'46	2 [☾] 5	1°10	23° 9	25°48	3°55	3°23	2°49	15°26	12°39	8°17	8°48	16°40	2°33	W 20
T 21	17 54 40	28°58'58	11 [♂] 45	0°35	24°19	26°28	4° 3	3°25	2°47	15°28	12°39	8°D17	8°45	16°46	2°35	T 21
F 22	17 58 37	29°56'09	26°31	0° 0	25°30	27° 9	4°12	3°28	2°45	15°31	12°39	8°17	8°41	16°53	2°38	F 22
S 23	18 2 33	0 [☾] 53'21	11 [♂] 19	29 ^{II} 25	26°41	27°49	4°21	3°30	2°43	15°33	12°D39	8°17	8°38	17° 0	2°40	S 23
S 24	18 6 30	1°50'32	26° 0	28°51	27°52	28°29	4°29	3°32	2°41	15°35	12°39	8°18	8°35	17° 6	2°43	S 24
M 25	18 10 26	2°47'44	10 [♂] 18	28°18	29° 2	29° 9	4°38	3°35	2°39	15°37	12°39	8°19	8°32	17°13	2°45	M 25
T 26	18 14 23	3°44'55	24°43	27°47	0 ^{II} 13	29°49	4°47	3°37	2°37	15°39	12°39	8°19	8°29	17°20	2°47	T 26
W 27	18 18 19	4°42'07	8 ^V 40	27°19	1°24	0 [☾] 30	4°56	3°39	2°35	15°41	12°39	8°R19	8°26	17°26	2°50	W 27
T 28	18 22 16	5°39'18	22°18	26°54	2°35	1°10	5° 5	3°40	2°33	15°44	12°39	8°19	8°22	17°33	2°52	T 28
F 29	18 26 13	6°36'31	5 [♂] 39	26°32	3°46	1°50	5°15	3°42	2°31	15°46	12°40	8°19	8°19	17°40	2°54	F 29
S 30	18 30 9	7 [☾] 33'43	18 [♂] 42	26 ^{II} 14	4 ^{II} 57	2 [☾] 30	5 [♂] 24	3 ^V 44	2 [♂] 29	15 ^{II} 48	12 [♂] 40	8 [♂] 18	8 [♂] 16	17 ^Ω 46	2 [♂] 56	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	21n58	14n28	5n 0	24n32	1n 4	9n52	2s 6	22n53	0n31	12n 1	1n11	1s 6	2s12	20s46	0n 7	F 1
S 2	22 6	18 42	4 31	24 20	0 53	10 16	2 6	22 59	0 31	11 58	1 11	1 5	2 12	20 46	0 7	S 2
S 3	22 14	21 56	3 48	24 7	0 40	10 39	2 6	23 4	0 32	11 56	1 10	1 3	2 12	20 46	0 7	S 3
M 4	22 22	23 59	2 54	23 53	0 27	11 3	2 6	23 10	0 32	11 54	1 10	1 2	2 12	20 45	0 7	M 4
T 5	22 29	24 45	1 52	23 38	0 14	11 26	2 5	23 15	0 33	11 51	1 10	1 0	2 13	20 45	0 7	T 5
W 6	22 35	24 14	0 46	23 23	0s 1	11 49	2 5	23 19	0 33	11 49	1 10	0 59	2 13	20 44	0 7	W 6
T 7	22 42	22 34	0s21	23 8	0 16	12 12	2 5	23 24	0 34	11 46	1 10	0 58	2 13	20 44	0 7	T 7
F 8	22 48	19 53	1 27	22 52	0 31	12 35	2 4	23 28	0 35	11 43	1 10	0 57	2 13	20 43	0 7	F 8
S 9	22 53	16 23	2 27	22 36	0 47	12 58	2 4	23 33	0 35	11 41	1 10	0 55	2 14	20 43	0 7	S 9
S 10	22 58	12 16	3 22	22 20	1 4	13 20	2 3	23 37	0 36	11 38	1 9	0 54	2 14	20 42	0 7	S 10
M 11	23 3	7 42	4 7	22 3	1 20	13 42	2 2	23 40	0 36	11 35	1 9	0 53	2 14	20 42	0 7	M 11
T 12	23 8	2 50	4 43	21 47	1 37	14 4	2 2	23 44	0 37	11 33	1 9	0 52	2 14	20 42	0 7	T 12
W 13	23 12	2s12	5 6	21 30	1 54	14 25	2 1	23 47	0 37	11 30	1 9	0 51	2 15	20 41	0 7	W 13
T 14	23 15	7 13	5 16	21 14	2 11	14 46	2 0	23 50	0 38	11 27	1 9	0 50	2 15	20 41	0 7	T 14
F 15	23 18	12 5	5 11	20 58	2 27	15 7	1 59	23 53	0 38	11 24	1 9	0 49	2 15	20 40	0 7	F 15
S 16	23 21	16 33	4 51	20 43	2 44	15 28	1 58	23 56	0 39	11 21	1 9	0 48	2 15	20 40	0 7	S 16
S 17	23 23	20 22	4 15	20 28	2 59	15 48	1 56	23 59	0 39	11 18	1 8	0 47	2 16	20 39	0 7	S 17
M 18	23 25	23 10	3 23	20 13	3 14	16 8	1 55	24 1	0 40	11 15	1 8	0 46	2 16	20 39	0 7	M 18
T 19	23 27	24 37	2 17	19 59	3 28	16 27	1 54	24 3	0 40	11 12	1 8	0 45	2 16	20 39	0 7	T 19
W 20	23 28	24 28	1 2	19 46	3 42	16 47	1 52	24 5	0 40	11 9	1 8	0 44	2 16	20 38	0 7	W 20
T 21	23 28	22 38	0n19	19 34	3 54	17 5	1 51	24 7	0 41	11 5	1 8	0 43	2 17	20 38	0 7	T 21
F 22	23 28	19 15	1 40	19 24	4 5	17 24	1 49	24 8	0 41	11 2	1 8	0 44	2 17	20 37	0 7	F 22
S 23	23 28	14 38	2 53	19 14	4 15	17 42	1 48	24 9	0 42	10 59	1 8	0 42	2 17	20 37	0 7	S 23
S 24	23 28	9 11	3 55	19 5	4 23	18 0	1 46	24 10	0 42	10 56	1 8	0 42	2 17	20 37	0 7	S 24
M 25	23 27	3 19	4 41	18 58	4 30	18 17	1 44	24 11	0 43	10 52	1 7	0 41	2 18	20 36	0 7	M 25
T 26	23 25	2n37	5 9	18 53	4 35	18 34	1 42	24 12	0 43	10 49	1 7	0 40	2 18	20 36	0 7	T 26
W 27	23 23	8 18	5 17	18 48	4 39	18 50	1 40	24 12	0 44	10 45	1 7	0 40	2 18	20 35	0 7	W 27
T 28	23 21	13 27	5 8	18 45	4 41	19 6	1 39	24 12	0 44	10 42	1 7	0 39	2 19	20 35	0 7	T 28
F 29	23 19	17 51	4 42	18 44	4 42	19 21	1 37	24 12	0 45	10 38	1 7	0 39	2 19	20 35	0 7	F 29
S 30	23n16	21n17	4n 2	18n44	4s41	19n36	1s35	24n12	0n45	10n35	1n 7	0s38	2s19	20s34	0n 7	S 30

Julian Day Number = 2353445.5, Delta T = 11.43 sec

Ecliptic obliquity = 23°28'28", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°59'27", Lahiri = 20°06'27"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1731
geocentric

JULY 1731

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 34 6	8 ⁵³ 0'55	1 ¹¹ 31	26°R 1	6 ¹¹ 8	3 ⁵³ 10	5 ¹¹ 33	3 ¹⁷ 46	2°R27	15 ¹¹ 50	12 ¹² 40	8°D18	8 ⁵³ 13	17 ¹² 53	2 ⁵⁸ 58	S 1
M 2	18 38 2	9°28'08	14° 6	25 ¹¹ 51	7°20	3°50	5°43	3°47	2 ¹⁷ 25	15°52	12°40	8 ⁵³ 18	8°10	18° 0	3° 0	M 2
T 3	18 41 59	10°25'21	26°28	25°D47	8°31	4°30	5°53	3°48	2°23	15°54	12°41	8°19	8° 6	18° 6	3° 2	T 3
W 4	18 45 55	11°22'34	8 ⁵³ 40	25°47	9°42	5°10	6° 2	3°50	2°22	15°56	12°41	8°R19	8° 3	18°13	3° 4	W 4
T 5	18 49 52	12°19'47	20°43	25°52	10°54	5°49	6°12	3°51	2°20	15°58	12°41	8°19	8° 0	18°20	3° 6	T 5
F 6	18 53 48	13°17'00	2 ¹² 39	26° 3	12° 5	6°29	6°22	3°52	2°18	16° 0	12°42	8°18	7°57	18°26	3° 8	F 6
S 7	18 57 45	14°14'14	14°30	26°19	13°16	7° 9	6°32	3°53	2°17	16° 2	12°42	8°18	7°54	18°33	3°10	S 7
S 8	19 1 142	15°11'27	26°20	26°40	14°28	7°49	6°42	3°54	2°15	16° 4	12°43	8°17	7°51	18°40	3°12	S 8
M 9	19 5 38	16° 8'40	8 ¹¹ 10	27° 6	15°39	8°28	6°53	3°55	2°13	16° 6	12°43	8°16	7°47	18°46	3°13	M 9
T 10	19 9 35	17° 5'53	20° 4	27°37	16°51	9° 8	7° 3	3°55	2°12	16° 8	12°44	8°15	7°44	18°53	3°15	T 10
W 11	19 13 31	18° 3'07	2 ¹² 6	28°14	18° 3	9°48	7°13	3°56	2°10	16°10	12°44	8°14	7°41	19° 0	3°16	W 11
T 12	19 17 28	19° 0'20	14°21	28°56	19°14	10°27	7°24	3°56	2° 9	16°12	12°45	8°D14	7°38	19° 6	3°18	T 12
F 13	19 21 24	19°57'34	26°52	29°43	20°26	11° 7	7°34	3°57	2° 7	16°14	12°46	8°14	7°35	19°13	3°20	F 13
S 14	19 25 21	20°54'48	9 ¹¹ 44	0 ⁵³ 35	21°38	11°46	7°45	3°57	2° 6	16°16	12°46	8°14	7°32	19°20	3°21	S 14
S 15	19 29 17	21°52'02	22°59	1°32	22°49	12°26	7°55	3°57	2° 5	16°18	12°47	8°15	7°28	19°26	3°22	S 15
M 16	19 33 14	22°49'16	6 ¹⁷ 41	2°34	24° 1	13° 5	8° 6	3°R57	2° 4	16°20	12°48	8°16	7°25	19°33	3°24	M 16
T 17	19 37 11	23°46'30	20°49	3°41	25°13	13°45	8°17	3°57	2° 2	16°22	12°49	8°17	7°22	19°40	3°25	T 17
W 18	19 41 7	24°43'45	5 ³² 22	4°53	26°25	14°24	8°28	3°57	2° 1	16°24	12°49	8°R18	7°19	19°47	3°26	W 18
T 19	19 45 4	25°41'01	20°14	6°10	27°37	15° 4	8°39	3°57	2° 0	16°26	12°50	8°17	7°16	19°53	3°27	T 19
F 20	19 49 0	26°38'16	5 ³² 19	7°31	28°49	15°43	8°50	3°57	1°59	16°27	12°51	8°16	7°12	20° 0	3°28	F 20
S 21	19 52 57	27°35'33	20°27	8°57	0 ⁵³ 1	16°22	9° 1	3°56	1°58	16°29	12°52	8°14	7° 9	20° 7	3°29	S 21
S 22	19 56 53	28°32'50	5 ¹⁷ 29	10°27	1°13	17° 1	9°12	3°56	1°57	16°31	12°53	8°12	7° 6	20°13	3°30	S 22
M 23	20 0 50	29°30'08	20°18	12° 2	2°26	17°41	9°24	3°55	1°56	16°33	12°54	8° 9	7° 3	20°20	3°31	M 23
T 24	20 4 46	0 ⁵² 27'27	4 ¹⁷ 45	13°40	3°38	18°20	9°35	3°54	1°55	16°34	12°55	8° 7	7° 0	20°27	3°32	T 24
W 25	20 8 43	1°24'47	18°49	15°23	4°50	18°59	9°46	3°53	1°54	16°36	12°56	8° 6	6°57	20°33	3°33	W 25
T 26	20 12 40	2°22'08	2 ⁵⁸ 28	17° 8	6° 2	19°38	9°58	3°52	1°53	16°38	12°57	8°D 5	6°53	20°40	3°34	T 26
F 27	20 16 36	3°19'30	15°42	18°58	7°15	20°17	10° 9	3°51	1°52	16°39	12°58	8° 6	6°50	20°47	3°35	F 27
S 28	20 20 33	4°16'54	28°36	20°50	8°27	20°56	10°21	3°50	1°52	16°41	12°59	8° 7	6°47	20°53	3°35	S 28
S 29	20 24 29	5°14'18	11 ¹¹ 11	22°45	9°40	21°35	10°32	3°49	1°51	16°43	13° 0	8° 8	6°44	21° 0	3°36	S 29
M 30	20 28 26	6°11'44	23°31	24°42	10°52	22°14	10°44	3°48	1°50	16°44	13° 2	8°10	6°41	21° 7	3°36	M 30
T 31	20 32 22	7 ¹² 9'10	5 ³² 39	26 ⁵³ 41	12 ⁵⁸ 5	22 ⁵³ 53	10 ¹¹ 56	3 ¹⁷ 46	1 ⁵⁷ 50	16 ¹¹ 46	13 ¹² 3	8°R11	6 ³⁸ 38	21 ¹² 13	3 ³⁷ 37	T 31

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	
S 1	23n12	23n36 3n10	18n46 4s39	19n51 1s32	24n12 0n46	10n31 1n 7	0s38 2s19	20s34 0n 7	21n19 1s24	10n49 17n12	23s13 23s13	12n22 12n14	0s19		
M 2	23 8	24 41 2 10	18 49 4 35	20 5 1 30	24 11 0 46	10 28 1 7	0 38 2 20	20 34 0 7	21 20 1 24	10 49 17 11	23 13 23 13	12 19 12 14	0 19		
T 3	23 4	24 31 1 5	18 54 4 30	20 18 1 28	24 10 0 46	10 24 1 7	0 37 2 20	20 33 0 7	21 20 1 24	10 48 17 11	23 13 23 14	12 16 12 15	0 19		
W 4	22 59	23 9 0s 2	19 0 4 24	20 31 1 26	24 9 0 47	10 20 1 6	0 37 2 20	20 33 0 7	21 20 1 24	10 47 17 10	23 13 23 14	12 14 12 16	0 19		
T 5	22 54	20 45 1 8	19 7 4 17	20 44 1 24	24 8 0 48	10 17 1 6	0 37 2 21	20 33 0 7	21 20 1 24	10 47 17 10	23 13 23 14	12 11 12 16	0 19		
F 6	22 49	17 28 1 11	19 16 4 9	20 56 1 21	24 7 0 48	10 13 1 6	0 37 2 21	20 32 0 7	21 20 1 24	10 46 17 9	23 13 23 14	12 8 12 17	0 19		
S 7	22 43	13 31 3 8	19 25 4 0	21 7 1 19	24 5 0 48	10 9 1 6	0 37 2 21	20 32 0 7	21 21 1 24	10 45 17 8	23 13 23 14	12 6 12 17	0 19		
S 8	22 36	9 3 3 56	19 36 3 50	21 18 1 17	24 3 0 49	10 5 1 6	0 37 2 21	20 32 0 7	21 21 1 24	10 45 17 8	23 13 23 15	12 3 12 18	0 19		
M 9	22 30	4 17 4 34	19 47 3 39	21 28 1 14	24 1 0 49	10 1 1 6	0 37 2 22	20 31 0 7	21 21 1 24	10 44 17 7	23 13 23 15	12 0 12 18	0 19		
T 10	22 23	0s40 5 1	19 59 3 28	21 38 1 12	23 59 0 50	9 57 1 6	0 37 2 22	20 31 0 7	21 21 1 24	10 43 17 7	23 13 23 15	11 58 12 19	0 19		
W 11	22 15	5 39 5 15	20 12 3 16	21 47 1 9	23 57 0 50	9 53 1 6	0 37 2 22	20 31 0 7	21 21 1 24	10 42 17 6	23 13 23 15	11 55 12 19	0 20		
T 12	22 7	10 30 5 15	20 25 3 3	21 56 1 7	23 54 0 50	9 49 1 6	0 37 2 22	20 31 0 7	21 22 1 24	10 42 17 6	23 13 23 15	11 52 12 19	0 20		
F 13	21 59	15 2 5 0	20 38 2 50	22 4 1 4	23 51 0 51	9 45 1 6	0 37 2 23	20 30 0 7	21 22 1 24	10 41 17 5	23 13 23 15	11 50 12 20	0 20		
S 14	21 51	19 1 4 30	20 51 2 37	22 11 1 1	23 48 0 51	9 41 1 5	0 37 2 23	20 30 0 7	21 22 1 24	10 40 17 5	23 13 23 16	11 47 12 20	0 20		
S 15	21 42	22 11 3 45	21 5 2 23	22 18 0 59	23 45 0 52	9 37 1 5	0 37 2 23	20 30 0 7	21 22 1 24	10 39 17 4	23 13 23 16	11 44 12 21	0 20		
M 16	21 32	24 11 2 46	21 17 2 9	22 24 0 56	23 42 0 52	9 33 1 5	0 37 2 24	20 30 0 7	21 22 1 24	10 39 17 3	23 13 23 16	11 42 12 21	0 20		
T 17	21 23	24 44 1 35	21 30 1 55	22 30 0 54	23 38 0 52	9 29 1 5	0 38 2 24	20 29 0 7	21 22 1 24	10 38 17 3	23 13 23 16	11 39 12 21	0 20		
W 18	21 13	23 38 0 16	21 42 1 41	22 35 0 51	23 34 0 53	9 25 1 5	0 38 2 24	20 29 0 7	21 23 1 24	10 37 17 2	23 13 23 16	11 36 12 22	0 20		
T 19	21 2	20 52 1n 6	21 53 1 27	22 39 0 48	23 30 0 53	9 21 1 5	0 38 2 24	20 29 0 7	21 23 1 25	10 36 17 2	23 13 23 17	11 33 12 22	0 20		
F 20	20 52	16 39 2 24	22 3 1 13	22 43 0 45	23 26 0 54	9 16 1 5	0 39 2 25	20 29 0 7	21 23 1 25	10 35 17 1	23 13 23 17	11 31 12 22	0 20		
S 21	20 40	11 20 3 32	22 11 0 59	22 46 0 43	23 22 0 54	9 12 1 5	0 39 2 25	20 28 0 7	21 23 1 25	10 35 17 1	23 13 23 17	11 28 12 23	0 21		
S 22	20 29	5 24 4 25	22 19 0 45	22 48 0 40	23 17 0 54	9 8 1 5	0 40 2 25	20 28 0 7	21 23 1 25	10 34 17 0	23 13 23 17	11 25 12 23	0 21		
M 23	20 17	0n45 5 0	22 24 0 32	22 50 0 37	23 13 0 55	9 4 1 5	0 40 2 26	20 28 0 7	21 23 1 25	10 33 17 0	23 13 23 17	11 23 12 23	0 21		
T 24	20 5	6 42 5 14	22 28 0 18	22 51 0 34	23 8 0 55	8 59 1 5	0 41 2 26	20 28 0 7	21 24 1 25	10 32 16 59	23 14 23 17	11 20 12 23	0 21		
W 25	19 52	12 9 5 9	22 30 0 6	22 52 0 32	23 3 0 56	8 55 1 5	0 41 2 26	20 28 0 7	21 24 1 25	10 31 16 59	23 14 23 18	11 17 12 23	0 21		
T 26	19 40	16 50 4 47	22 29 0n 7	22 51 0 29	22 58 0 56	8 51 1 5	0 42 2 26	20 28 0 7	21 24 1 25	10 30 16 58	23 14 23 18	11 15 12 24	0 21		
F 27	19 26	20 33 4 10	22 26 0 19	22 50 0 26	22 52 0 56	8 46 1 5	0 42 2 27	20 27 0 7	21 24 1 25	10 29 16 58	23 14 23 18	11 12 12 24	0 21		
S 28	19 13	23 8 3 21	22 21 0 30	22 49 0 23	22 47 0 57	8 42 1 4	0 43 2 27	20 27 0 7	21 24 1 25	10 28 16 57	23 14 23 18	11 9 12 24	0 21		
S 29	18 59	24 31 2 23	22 13 0 40	22 47 0 21	22 41 0 57	8 37 1 4	0 44 2 27	20 27 0 7	21 24 1 25	10 28 16 57	23 13 23 18	11 6 12 24	0 21		
M 30	18 45	24 39 1 20	22 2 0 50	22 44 0 18	22 35 0 58	8 33 1 4	0 45 2 27	20 27 0 7	21 24 1 25	10 27 16 56	23 13 23 18	11 4 12 24	0 22		
T 31	18n31	23n35 0n14	21n49 0n59	22n41 0s15	22n29 0n58	8n28 1n 4	0s45 2s28	20s27 0n 7	21n24 1s25	10n26 16n56	23s13 23s19	11n 1 12n24	0s22		

Julian Day Number = 2353475.5, Delta T = 11.44 sec
Ecliptic obliquity = 23°28'28", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°59'31", Lahiri = 20°06'3

ASTRODIENST EPHEMERIS for the year 1731
geocentric

AUGUST 1731

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	20 36 19	8♌ 6'38	17♊40	28♊42	13♊17	23♊32	11♏ 8	3°R45	1°R49	16♏48	13♊ 4	8°R10	6♊34	21♏20	3♊37	W 1
T 2	20 40 15	9° 4'07	29°34	0♌44	14°30	24°11	11°19	3°Y43	1♊49	16°49	13° 5	8♊ 8	6°31	21°27	3°38	T 2
F 3	20 44 12	10° 1'37	11♌25	2°48	15°43	24°50	11°31	3°41	1°48	16°51	13° 7	8° 5	6°28	21°33	3°38	F 3
S 4	20 48 9	10°59'08	23°14	4°51	16°56	25°29	11°43	3°39	1°48	16°52	13° 8	8° 0	6°25	21°40	3°38	S 4
S 5	20 52 5	11°56'39	5♏ 4	6°55	18° 8	26° 8	11°55	3°38	1°48	16°54	13° 9	7°54	6°22	21°47	3°39	S 5
M 6	20 56 2	12°54'12	16°57	9° 0	19°21	26°47	12° 7	3°36	1°47	16°55	13°11	7°48	6°18	21°53	3°39	M 6
T 7	20 59 58	13°51'46	28°54	11° 3	20°34	27°25	12°19	3°33	1°47	16°56	13°12	7°42	6°15	22° 0	3°39	T 7
W 8	21 3 55	14°49'21	10♊58	13° 7	21°47	28° 4	12°32	3°31	1°47	16°58	13°14	7°37	6°12	22° 7	3°R39	W 8
T 9	21 7 51	15°46'56	23°14	15°10	23° 0	28°43	12°44	3°29	1°47	16°59	13°15	7°33	6° 9	22°14	3°39	T 9
F 10	21 11 48	16°44'33	5♏43	17°12	24°13	29°22	12°56	3°27	1°47	17° 0	13°17	7°31	6° 6	22°20	3°39	F 10
S 11	21 15 44	17°42'11	18°30	19°13	25°26	0♌ 0	13° 8	3°24	1°D47	17° 2	13°18	7°D30	6° 3	22°27	3°39	S 11
S 12	21 19 41	18°39'49	1♊39	21°13	26°39	0°39	13°21	3°22	1°47	17° 3	13°20	7°31	5°59	22°34	3°38	S 12
M13	21 23 38	19°37'29	15°13	23°11	27°52	1°17	13°33	3°19	1°47	17° 4	13°21	7°32	5°56	22°40	3°38	M13
T 14	21 27 34	20°35'10	29°13	25° 9	29° 5	1°56	13°45	3°16	1°47	17° 5	13°23	7°33	5°53	22°47	3°38	T 14
W15	21 31 31	21°32'52	13♊40	27° 5	0♌19	2°35	13°58	3°13	1°47	17° 7	13°24	7°R33	5°50	22°54	3°37	W15
T 16	21 35 27	22°30'35	28°30	29° 0	1°32	3°13	14°10	3°10	1°47	17° 8	13°26	7°32	5°47	23° 0	3°37	T 16
F 17	21 39 24	23°28'19	13♊38	0♏54	2°45	3°52	14°23	3° 8	1°48	17° 9	13°28	7°28	5°44	23° 7	3°37	F 17
S 18	21 43 20	24°26'04	28°55	2°46	3°59	4°30	14°35	3° 4	1°48	17°10	13°30	7°22	5°40	23°14	3°36	S 18
S 19	21 47 17	25°23'51	14♊10	4°37	5°12	5° 8	14°48	3° 1	1°48	17°11	13°31	7°16	5°37	23°20	3°35	S 19
M20	21 51 13	26°21'39	29°13	6°26	6°25	5°47	15° 0	2°58	1°49	17°12	13°33	7° 8	5°34	23°27	3°35	M20
T 21	21 55 10	27°19'29	13°Y54	8°15	7°39	6°25	15°13	2°55	1°49	17°13	13°35	7° 2	5°31	23°34	3°34	T 21
W22	21 59 7	28°17'21	28° 8	10° 1	8°52	7° 4	15°26	2°51	1°50	17°14	13°37	6°56	5°28	23°40	3°33	W22
T 23	22 3 3	29°15'15	11♊53	11°47	10° 6	7°42	15°38	2°48	1°51	17°15	13°38	6°53	5°24	23°47	3°32	T 23
F 24	22 7 0	0♏13'10	25°10	13°31	11°20	8°20	15°51	2°45	1°51	17°16	13°40	6°D51	5°21	23°54	3°32	F 24
S 25	22 10 56	1°11'08	8♏ 1	15°14	12°33	8°58	16° 4	2°41	1°52	17°17	13°42	6°51	5°18	24° 1	3°31	S 25
S 26	22 14 53	2° 9'07	20°31	16°56	13°47	9°37	16°16	2°37	1°53	17°18	13°44	6°52	5°15	24° 7	3°30	S 26
M27	22 18 49	3° 7'08	2♊44	18°36	15° 1	10°15	16°29	2°34	1°53	17°19	13°46	6°R53	5°12	24°14	3°29	M27
T 28	22 22 46	4° 5'11	14°45	20°15	16°15	10°53	16°42	2°30	1°54	17°19	13°48	6°53	5° 9	24°21	3°27	T 28
W29	22 26 42	5° 3'16	26°39	21°53	17°28	11°31	16°55	2°26	1°55	17°20	13°50	6°51	5° 5	24°27	3°26	W29
T 30	22 30 39	6° 1'22	8♏29	23°29	18°42	12° 9	17° 8	2°22	1°56	17°21	13°52	6°46	5° 2	24°34	3°25	T 30
F 31	22 34 36	6♏59'31	20♌17	25♏ 4	19♌56	12♌48	17♏21	2°Y18	1♊57	17♏22	13♊54	6♊39	4♊59	24♌41	3♊24	F 31

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	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	18n16	21n27	0s52	21n33	1n 8	22n36	0s12	22n23	0n58	8n24	1n 4	0s46	2s28	20s27	0n 7	21n25	1s25	10n25	16n55	23s13	23s19	10n58	12n24	0s22	
T 2	18 1	18 24	1 54	21 15	1 15	22 32	0 9	22 16	0 59	8 19	1 4	0 47	2 28	20 27	0 7	21 25	1 25	10 24	16 55	23 13	23 19	10 56	12 24	0 22	
F 3	17 46	14 38	2 52	20 53	1 22	22 26	0 7	22 10	0 59	8 14	1 4	0 48	2 28	20 27	0 7	21 25	1 25	10 23	16 54	23 14	23 19	10 53	12 24	0 22	
S 4	17 30	10 18	3 41	20 30	1 28	22 20	0 4	22 3	0 59	8 10	1 4	0 49	2 29	20 27	0 7	21 25	1 25	10 22	16 54	23 14	23 19	10 50	12 24	0 22	
S 5	17 14	5 36	4 22	20 4	1 33	22 13	0 1	21 56	1 0	8 5	1 4	0 50	2 29	20 27	0 7	21 25	1 25	10 21	16 53	23 14	23 19	10 47	12 24	0 22	
M 6	16 58	0 42	4 51	19 35	1 37	22 6	0n 1	21 49	1 0	8 1	1 4	0 51	2 29	20 27	0 7	21 25	1 25	10 20	16 53	23 15	23 19	10 45	12 24	0 22	
T 7	16 41	4s15	5 7	19 5	1 40	21 58	0 4	21 42	1 1	7 56	1 4	0 52	2 29	20 27	0 7	21 25	1 25	10 19	16 52	23 15	23 20	10 42	12 24	0 22	
W 8	16 25	9 6	5 10	18 33	1 43	21 49	0 7	21 34	1 1	7 51	1 4	0 53	2 30	20 27	0 6	21 25	1 25	10 18	16 52	23 15	23 20	10 39	12 24	0 22	
T 9	16 8	13 40	4 59	17 59	1 44	21 40	0 9	21 27	1 1	7 47	1 4	0 54	2 30	20 27	0 6	21 25	1 25	10 17	16 51	23 16	23 20	10 37	12 24	0 23	
F 10	15 50	17 45	4 34	17 23	1 46	21 30	0 12	21 19	1 2	7 42	1 4	0 56	2 30	20 27	0 6	21 26	1 25	10 16	16 51	23 16	23 20	10 34	12 24	0 23	
S 11	15 33	21 7	3 55	16 46	1 46	21 20	0 15	21 11	1 2	7 37	1 4	0 57	2 30	20 27	0 6	21 26	1 25	10 15	16 50	23 16	23 20	10 31	12 24	0 23	
S 12	15 15	23 30	3 2	16 7	1 46	21 8	0 17	21 3	1 2	7 32	1 4	0 58	2 31	20 27	0 6	21 26	1 25	10 14	16 50	23 16	23 20	10 28	12 23	0 23	
M13	14 57	24 37	1 58	15 27	1 45	20 57	0 20	20 55	1 3	7 27	1 4	0 59	2 31	20 27	0 6	21 26	1 25	10 13	16 50	23 16	23 20	10 26	12 23	0 23	
T 14	14 39	24 13	0 45	14 47	1 43	20 44	0 22	20 47	1 3	7 23	1 4	1 1	2 31	20 27	0 6	21 26	1 25	10 12	16 49	23 16	23 21	10 23	12 23	0 23	
W15	14 21	22 13	0n33	14 5	1 41	20 31	0 25	20 38	1 3	7 18	1 4	1 2	2 31	20 27	0 6	21 26	1 25	10 11	16 49	23 16	23 21	10 20	12 23	0 23	
T 16	14 2	18 41	1 51	13 23	1 38	20 18	0 27	20 30	1 4	7 13	1 4	1 3	2 32	20 27	0 6	21 26	1 25	10 10	16 48	23 16	23 21	10 18	12 22	0 23	
F 17	13 43	13 51	3 2	12 39	1 35	20 3	0 30	20 21	1 4	7 8	1 4	1 5	2 32	20 27	0 6	21 26	1 25	10 9	16 48	23 16	23 21	10 15	12 22	0 23	
S 18	13 24	8 6	4 1	11 56	1 32	19 49	0 32	20 12	1 4	7 3	1 4	1 6	2 32	20 27	0 6	21 26	1 25	10 8	16 47	23 16	23 21	10 12	12 22	0 24	
S 19	13 4	1 53	4 43	11 12	1 28	19 33	0 35	20 3	1 5	6 58	1 4	1 7	2 32	20 27	0 6	21 26	1 25	10 7	16 47	23 17	23 21	10 9	12 22	0 24	
M20	12 45	4n20	5 4	10 27	1 23	19 17	0 37	19 54	1 5	6 54	1 4	1 9	2 32	20 27	0 6	21 26	1 26	10 6	16 47	23 17	23 21	10 7	12 21	0 24	
T 21	12 25	10 10	5 5	9 42	1 18	19 1	0 39	19 45	1 5	6 49	1 4	1 10	2 33	20 27	0 6	21 26	1 26	10 5	16 46	23 17	23 22	10 4	12 21	0 24	
W22	12 5	15 17	4 47	8 57	1 13	18 44	0 41	19 36	1 6	6 44	1 4	1 12	2 33	20 27	0 6	21 26	1 26	10 4	16 46	23 18	23 22	10 1	12 21	0 24	
T 23	11 45	19 25	4 12	8 12	1 8	18 26	0 44	19 26	1 6	6 39	1 4	1 13	2 33	20 28	0 6	21 27	1 26	10 3	16 45	23 18	23 22	9 58	12 20	0 24	
F 24	11 25	22 24	3 25	7 27	1 2	18 8	0 46	19 16	1 6	6 34	1 3	1 15	2 33	20 28	0 6	21 27	1 26	10 2	16 45	23 18	23 22	9 56	12 20	0 24	
S 25	11 4	24 7	2 29	6 41	0 56	17 50	0 48	19 7	1 7	6 29	1 3	1 17	2 33	20 28	0 6	21 27	1 26	10 1	16 45	23 18	23 22	9 53	12 19	0 24	
S 26	10 43	24 35	1 27	5 56	0 49	17 31	0 50	18 57	1 7	6 24	1 3	1 18	2 34	20 28	0 6	21 27	1 26	10 0	16 44	23 18	23 22	9 50	12 19	0 24	
M27	10 23	23 49	0 22	5 10	0 43	17 11	0 52	18 47	1 7	6 19	1 3	1 20	2 34	20 28	0 6	21 27	1 26	9 59	16 44	23 18	23 22	9 48	12 18	0 25	
T 28	10 2	21 58	0s42	4 25	0 36	16 51	0 54	18 37	1 8	6 14	1 3	1 22	2 34	20 28	0 6	21 27	1 26	9 58	16 44	23 18	23 22	9 45	12 18	0 25	
W29	9 40	19 9	1 44	3 40	0 29	16 31	0 56	18 26	1 8	6 9	1 3	1 23	2 34	20 29	0 6	21 27	1 26	9 57	16 43	23 18	23 23	9 42	12 17	0 25	
T 30	9 19	15 35	2 41	2 56	0 22	16 9	0 58	18 16	1 8	6 4	1 3	1 25	2 34	20 29	0 6	21 27	1 26	9 56	16 43	23 18	23 23	9 39	12 17	0 25	
F 31	8n57	11n25	3s30	2n11	0n15	15n48	1n 0	18n 6	1n 9	5n59	1n 3	1s27	2s34	20s29	0n 6	21n27	1s26	9n55	16n43	23s18	23s23	9n37	12n16	0s25	

ASTRODIENST EPHEMERIS for the year 1731

geocentric

SEPTEMBER 1731

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 38 32	7 ^h 57'41	2 ^h 8	26 ^m 38	21 ^h 10	13 ^h 26	17 ^h 33	2°R14	1 ^h 58	17 ^h 22	13 ^h 56	6°R30	4 ^h 56	24 ^h 47	3°R23	S 1
S 2	22 42 29	8°55'53	14° 1	28°11	22°24	14° 4	17°46	2 ^h 10	1°59	17°23	13°58	6°319	4°53	24°54	3 ^h 21	S 2
M 3	22 46 25	9°54'06	26° 0	29°43	23°38	14°42	17°59	2° 6	2° 0	17°24	14° 0	6° 7	4°49	25° 1	3°20	M 3
T 4	22 50 22	10°52'22	8 ^h 4	1 ^h 13	24°52	15°20	18°12	2° 2	2° 2	17°24	14° 2	5°55	4°46	25° 7	3°18	T 4
W 5	22 54 18	11°50'39	20°16	2°42	26° 6	15°58	18°25	1°58	2° 3	17°25	14° 4	5°44	4°43	25°14	3°17	W 5
T 6	22 58 15	12°48'57	2 ^h 16	4°10	27°20	16°36	18°38	1°53	2° 4	17°25	14° 6	5°36	4°40	25°21	3°15	T 6
F 7	23 2 11	13°47'17	15°11	5°37	28°35	17°14	18°51	1°49	2° 6	17°26	14° 8	5°30	4°37	25°28	3°13	F 7
S 8	23 6 8	14°45'39	27°59	7° 2	29°49	17°52	19° 4	1°45	2° 7	17°26	14°10	5°26	4°34	25°34	3°12	S 8
S 9	23 10 5	15°44'03	11 ^h 5	8°27	1 ^h 3	18°30	19°17	1°40	2° 8	17°27	14°12	5°D25	4°30	25°41	3°10	S 9
M10	23 14 1	16°42'28	24°30	9°49	2°17	19° 7	19°30	1°36	2°10	17°27	14°15	5°25	4°27	25°48	3° 8	M10
T 11	23 17 58	17°40'54	8 ^h 20	11°11	3°31	19°45	19°43	1°31	2°11	17°27	14°17	5°R25	4°24	25°54	3° 6	T 11
W12	23 21 54	18°39'23	22°33	12°31	4°46	20°23	19°56	1°27	2°13	17°28	14°19	5°24	4°21	26° 1	3° 5	W12
T 13	23 25 51	19°37'52	7 ^h 31	13°50	6° 0	21° 1	20° 9	1°22	2°15	17°28	14°21	5°21	4°18	26° 8	3° 3	T 13
F 14	23 29 47	20°36'24	22° 6	15° 7	7°14	21°39	20°22	1°18	2°16	17°28	14°23	5°16	4°15	26°14	3° 1	F 14
S 15	23 33 44	21°34'57	7 ^h 15	16°23	8°29	22°16	20°35	1°13	2°18	17°28	14°26	5° 7	4°11	26°21	2°59	S 15
S 16	23 37 40	22°33'32	22°27	17°37	9°43	22°54	20°48	1° 9	2°20	17°29	14°28	4°57	4° 8	26°28	2°57	S 16
M17	23 41 37	23°32'09	7 ^h 31	18°49	10°58	23°32	21° 1	1° 4	2°22	17°29	14°30	4°46	4° 5	26°34	2°55	M17
T 18	23 45 34	24°30'48	22°17	20° 0	12°12	24° 9	21°14	0°59	2°24	17°29	14°32	4°36	4° 2	26°41	2°52	T 18
W19	23 49 30	25°29'29	6 ^h 37	21° 9	13°27	24°47	21°27	0°55	2°26	17°29	14°35	4°27	3°59	26°48	2°50	W19
T 20	23 53 27	26°28'12	20°29	22°16	14°41	25°25	21°40	0°50	2°27	17°29	14°37	4°20	3°55	26°55	2°48	T 20
F 21	23 57 23	27°26'58	3 ^h 15	23°21	15°56	26° 2	21°53	0°45	2°29	17°R29	14°39	4°16	3°52	27° 1	2°46	F 21
S 22	0 1 20	28°25'46	16°46	24°23	17°11	26°40	22° 6	0°41	2°32	17°29	14°41	4°15	3°49	27° 8	2°43	S 22
S 23	0 5 16	29°24'36	29°17	25°23	18°25	27°17	22°19	0°36	2°34	17°29	14°44	4°14	3°46	27°15	2°41	S 23
M24	0 9 13	0 ^h 23'29	11 ^h 29	26°21	19°40	27°55	22°31	0°31	2°36	17°29	14°46	4°14	3°43	27°21	2°39	M24
T 25	0 13 9	1°22'23	23°29	27°16	20°55	28°32	22°44	0°27	2°38	17°29	14°48	4°13	3°40	27°28	2°36	T 25
W26	0 17 6	2°21'20	5 ^h 21	28° 7	22° 9	29°10	22°57	0°22	2°40	17°29	14°51	4°10	3°36	27°35	2°34	W26
T 27	0 21 3	3°20'20	17°10	28°56	23°24	29°47	23°10	0°17	2°42	17°28	14°53	4° 5	3°33	27°41	2°31	T 27
F 28	0 24 59	4°19'21	28°59	29°40	24°39	0 ^h 25	23°23	0°13	2°45	17°28	14°55	3°56	3°30	27°48	2°29	F 28
S 29	0 28 56	5°18'25	10 ^h 53	0 ^h 21	25°54	1° 2	23°36	0° 8	2°47	17°28	14°58	3°45	3°27	27°55	2°26	S 29
S 30	0 32 52	6 ^h 17'30	22 ^h 52	0 ^h 15	27 ^h 9	1 ^h 39	23 ^h 49	0°13	2°49	17 ^h 28	15 ^h 0	3°32	3°24	28 ^h 1	2°24	S 30

Day	☉	☾			♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	8n36	6n50	4s11	1n27	0n 7	15n26	1n 1	17n55	1n 9	5n54	1n 3	1s28	2s35	20s29	0n 6	21n27	1s26	9n54	16n42	23s19	23s23	9n34	12n16	0s25								
S 2	8 14	1 59	4 40	0 43	0s 1	15 4	1 3	17 44	1 9	5 49	1 3	1 30	2 35	20 29	0 6	21 27	1 26	9 53	16 42	23 19	23 23	9 31	12 15	0 25								
M 3	7 52	2s58	4 58	0s 1	0 8	14 41	1 5	17 33	1 9	5 44	1 3	1 32	2 35	20 30	0 6	21 27	1 26	9 52	16 42	23 20	23 23	9 28	12 15	0 25								
T 4	7 30	7 50	5 2	0 44	0 16	14 18	1 6	17 22	1 10	5 39	1 3	1 34	2 35	20 30	0 6	21 27	1 26	9 51	16 42	23 21	23 23	9 26	12 14	0 25								
W 5	7 8	12 27	4 53	1 27	0 24	13 54	1 8	17 11	1 10	5 34	1 4	1 35	2 35	20 30	0 6	21 27	1 26	9 50	16 41	23 21	23 23	9 23	12 14	0 26								
T 6	6 46	16 38	4 30	2 9	0 32	13 30	1 10	17 0	1 10	5 29	1 4	1 37	2 35	20 30	0 6	21 27	1 26	9 49	16 41	23 21	23 24	9 20	12 13	0 26								
F 7	6 23	20 8	3 54	2 51	0 40	13 6	1 11	16 49	1 11	5 24	1 4	1 39	2 35	20 31	0 6	21 27	1 26	9 47	16 41	23 22	23 24	9 17	12 12	0 26								
S 8	6 1	22 45	3 5	3 32	0 48	12 41	1 12	16 38	1 11	5 18	1 4	1 41	2 36	20 31	0 6	21 27	1 26	9 46	16 40	23 22	23 24	9 15	12 12	0 26								
S 9	5 38	24 12	2 5	4 13	0 57	12 16	1 14	16 26	1 11	5 13	1 4	1 43	2 36	20 31	0 6	21 27	1 26	9 45	16 40	23 22	23 24	9 12	12 11	0 26								
M10	5 15	24 19	0 58	4 53	1 5	11 50	1 15	16 15	1 12	5 8	1 4	1 45	2 36	20 32	0 6	21 27	1 26	9 44	16 40	23 22	23 24	9 9	12 10	0 26								
T 11	4 53	22 57	0n15	5 33	1 13	11 25	1 16	16 3	1 12	5 3	1 4	1 47	2 36	20 32	0 6	21 27	1 26	9 43	16 40	23 22	23 24	9 6	12 9	0 26								
W12	4 30	20 7	1 30	6 12	1 21	10 59	1 17	15 51	1 12	4 58	1 4	1 48	2 36	20 32	0 6	21 27	1 26	9 42	16 39	23 22	23 24	9 4	12 9	0 26								
T 13	4 7	15 56	2 40	6 50	1 29	10 32	1 18	15 39	1 12	4 53	1 4	1 50	2 36	20 33	0 6	21 27	1 27	9 41	16 39	23 22	23 24	9 1	12 8	0 26								
F 14	3 44	10 41	3 40	7 27	1 37	10 6	1 19	15 28	1 13	4 48	1 4	1 52	2 36	20 33	0 6	21 27	1 27	9 40	16 39	23 22	23 24	8 58	12 7	0 27								
S 15	3 21	4 44	4 27	8 4	1 45	9 39	1 20	15 15	1 13	4 43	1 4	1 54	2 36	20 33	0 6	21 27	1 27	9 39	16 39	23 23	23 24	8 55	12 6	0 27								
S 16	2 57	1n30	4 54	8 40	1 53	9 11	1 21	15 3	1 13	4 38	1 4	1 56	2 36	20 34	0 6	21 27	1 27	9 38	16 39	23 23	23 25	8 53	12 6	0 27								
M17	2 34	7 35	5 1	9 15	2 1	8 44	1 22	14 51	1 14	4 33	1 4	1 58	2 36	20 34	0 6	21 27	1 27	9 37	16 38	23 23	23 25	8 50	12 5	0 27								
T 18	2 11	13 7	4 47	9 49	2 8	8 16	1 23	14 39	1 14	4 28	1 4	2 0	2 36	20 34	0 6	21 27	1 27	9 36	16 38	23 24	23 25	8 47	12 4	0 27								
W19	1 48	17 46	4 15	10 22	2 16	7 48	1 23	14 27	1 14	4 23	1 4	2 2	2 37	20 35	0 6	21 27	1 27	9 35	16 38	23 24	23 25	8 44	12 3	0 27								
T 20	1 24	21 16	3 29	10 54	2 23	7 20	1 24	14 14	1 14	4 17	1 4	2 4	2 37	20 35	0 6	21 27	1 27	9 34	16 38	23 24	23 25	8 42	12 2	0 27								
F 21	1 1	23 28	2 33	11 25	2 31	6 51	1 25	14 2	1 15	4 12	1 4	2 6	2 37	20 36	0 6	21 27	1 27	9 33	16 38	23 24	23 25	8 39	12 1	0 27								
S 22	0 38	24 20	1 31	11 54	2 38	6 23	1 25	13 49	1 15	4 7	1 4	2 7	2 37	20 36	0 6	21 27	1 27	9 32	16 38	23 24	23 25	8 36	12 0	0 27								
S 23	0 14	23 55	0 26	12 23	2 44	5 54	1 26	13 36	1 15	4 2	1 4	2 9	2 37	20 36	0 6	21 27	1 27	9 31	16 38	23 24	23 25	8 33	12 0	0 27								
M24	0s 9	22 20	0s38	12 50	2 51	5 25	1 26	13 24	1 15	3 57	1 4	2 11	2 37	20 37	0 6	21 26	1 27	9 30	16 37	23 24	23 25	8 31	11 59	0 28								
T 25	0 33	19 47	1 40	13 16	2 57	4 56	1 26	13 11	1 16	3 52	1 4	2 13	2 37	20 37	0 6	21 26	1 27	9 29	16 37	23 24	23 25	8 28	11 58	0 28								
W26	0 56	16 26	2 37	13 40	3 3	4 26	1 26	12 58	1 16	3 47	1 4	2 15	2 37	20 38	0 6	21 26	1 27	9 28	16 37	23 25	23 26	8 25	11 57	0 28								
T 27	1 20	12 27	3 26	14 2	3 8	3 57	1 27	12 45	1 16	3 42	1 4	2 17	2 37	20 38	0 6	21 26	1 27	9 27	16 37	23 25	23 26	8 22	11 56	0 28								
F 28	1 43	7 59	4 7	14 23	3 13	3 27	1 27	12 32	1 16	3 37	1 4	2 19	2 37	20 39	0 6	21 26	1 27	9 26	16 37	23 25	23 26	8 20	11 55	0 28								
S 29	2 7	3 14	4 36	14 42	3 18	2 58	1 27	12 19	1 17	3 32	1 4	2 21	2 37	20 39	0 6	21 26	1 27	9 25	16 37	23 25	23 26	8 17	11 54	0 28								
S 30	2s30	1s41	4s54	14s58	3s21	2n28	1n27	12n 6	1n17	3n27	1n 4	2s23	2s37	20s40	0n 6	21n26	1s27	9n24	16n37	23s26	23s26	8n14	11n53	0s28								

ASTRODIENST EPHEMERIS for the year 1731
geocentric

OCTOBER 1731

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	0 36 49	7♌16'38	5♊0	1♈30	28♎24	2♈17	24♎2	29°R59	2♊52	17°R27	15♊2	3°R18	3♊20	28♊8	2°R21	M 1
T 2	0 40 45	8°15'48	17°16	1°57	29°38	2°54	24°14	29♈54	2°54	17♊27	15°5	3♊4	3°17	28°15	2♊19	T 2
W 3	0 44 42	9°15'00	29°42	2°19	0♊53	3°31	24°27	29°49	2°57	17°27	15°7	2°51	3°14	28°22	2°16	W 3
T 4	0 48 38	10°14'14	12♈18	2°34	2°8	4°9	24°40	29°45	2°59	17°26	15°10	2°41	3°11	28°28	2°13	T 4
F 5	0 52 35	11°13'30	25°4	2°44	3°23	4°46	24°53	29°40	3°2	17°26	15°12	2°33	3°8	28°35	2°10	F 5
S 6	0 56 31	12°12'47	8♊1	2°R46	4°38	5°23	25°5	29°36	3°5	17°25	15°14	2°29	3°5	28°42	2°8	S 6
S 7	1 0 28	13°12'07	21°12	2°41	5°53	6°0	25°18	29°31	3°7	17°25	15°17	2°27	3°1	28°48	2°5	S 7
M 8	1 4 25	14°11'28	4♊38	2°28	7°8	6°37	25°31	29°27	3°10	17°24	15°19	2°D27	2°58	28°55	2°2	M 8
T 9	1 8 21	15°10'52	18°22	2°7	8°23	7°14	25°43	29°22	3°13	17°24	15°22	2°R27	2°55	29°2	1°59	T 9
W10	1 12 18	16°10'16	2♊23	1°38	9°38	7°51	25°56	29°18	3°16	17°23	15°24	2°26	2°52	29°8	1°56	W10
T11	1 16 14	17°9'43	16°43	1°1	10°53	8°29	26°9	29°14	3°18	17°22	15°26	2°23	2°49	29°15	1°54	T11
F12	1 20 11	18°9'11	1♊19	0°15	12°8	9°6	26°21	29°9	3°21	17°22	15°29	2°18	2°46	29°22	1°51	F12
S13	1 24 7	19°8'41	16°7	29♊21	13°23	9°43	26°34	29°5	3°24	17°21	15°31	2°10	2°42	29°29	1°48	S13
S14	1 28 4	20°8'13	0♊59	28°21	14°38	10°20	26°46	29°1	3°27	17°20	15°33	2°0	2°39	29°35	1°45	S14
M15	1 32 0	21°7'47	15°47	27°14	15°54	10°57	26°58	28°57	3°30	17°19	15°36	1°49	2°36	29°42	1°42	M15
T16	1 35 57	22°7'23	0♊23	26°3	17°9	11°33	27°11	28°53	3°33	17°19	15°38	1°38	2°33	29°49	1°39	T16
W17	1 39 54	23°7'00	14°38	24°49	18°24	12°10	27°23	28°48	3°36	17°18	15°41	1°29	2°30	29°55	1°36	W17
T18	1 43 50	24°6'41	28°29	23°34	19°39	12°47	27°35	28°44	3°39	17°17	15°43	1°23	2°26	0♎2	1°33	T18
F19	1 47 47	25°6'23	11♊53	22°20	20°54	13°24	27°48	28°40	3°42	17°16	15°45	1°18	2°23	0°9	1°30	F19
S20	1 51 43	26°6'07	24°51	21°11	22°9	14°1	28°0	28°37	3°45	17°15	15°48	1°17	2°20	0°15	1°27	S20
S21	1 55 40	27°5'54	7♊25	20°7	23°24	14°38	28°12	28°33	3°48	17°14	15°50	1°D17	2°17	0°22	1°24	S21
M22	1 59 36	28°5'43	19°41	19°11	24°40	15°14	28°24	28°29	3°51	17°13	15°52	1°17	2°14	0°29	1°21	M22
T23	2 3 33	29°5'34	1♊43	18°24	25°55	15°51	28°36	28°25	3°54	17°12	15°55	1°R18	2°11	0°36	1°18	T23
W24	2 7 29	0♎5'28	13°36	17°47	27°10	16°28	28°48	28°22	3°58	17°11	15°57	1°16	2°7	0°42	1°15	W24
T25	2 11 26	1°5'23	25°26	17°22	28°25	17°5	29°0	28°18	4°1	17°10	15°59	1°13	2°4	0°49	1°12	T25
F26	2 15 23	2°5'21	7♎17	17°8	29°41	17°41	29°12	28°15	4°4	17°9	16°2	1°8	2°1	0°56	1°9	F26
S27	2 19 19	3°5'21	19°14	17°D 6	0♎56	18°18	29°24	28°11	4°7	17°8	16°4	1°0	1°58	1°2	1°6	S27
S28	2 23 16	4°5'22	1♊20	17°15	2°11	18°54	29°36	28°8	4°11	17°7	16°6	0°50	1°55	1°9	1°3	S28
M29	2 27 12	5°5'26	13°37	17°34	3°26	19°31	29°47	28°5	4°14	17°6	16°9	0°39	1°52	1°16	1°0	M29
T30	2 31 9	6°5'32	26°6	18°3	4°42	20°8	29°59	28°1	4°17	17°5	16°11	0°29	1°48	1°22	0°57	T30
W31	2 35 5	7♎5'40	8♎49	18♊41	5♎57	20♎44	0♊11	27♈58	4♊21	17♊3	16♊13	0♊19	1♊45	1♎29	0♊54	W31

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	
M 1	2s54	6s34 4s59	15s13 3s25	1n58 1n27	11n53 1n17	3n22 1n4	2s24 2s37	20s40 0n6	21n26 1s27	9n23 16n37	23s26 23s26	8n11 11n52	0s28		
T 2	3 17	11 16 4 51	15 24 3 27	1 28 1 26	11 40 1 17	3 17 1 5	2 26 2 37	20 41 0 6	21 26 1 27	9 23 16 37	23 26 23 26	8 8 11 51	0 28		
W 3	3 40	15 33 4 28	15 34 3 29	0 58 1 26	11 26 1 18	3 12 1 5	2 28 2 37	20 41 0 6	21 26 1 27	9 22 16 37	23 27 23 26	8 6 11 50	0 28		
T 4	4 4	19 13 3 52	15 40 3 30	0 28 1 26	11 13 1 18	3 7 1 5	2 30 2 37	20 42 0 6	21 26 1 27	9 21 16 37	23 27 23 26	8 3 11 49	0 29		
F 5	4 27	22 2 3 4	15 43 3 29	0s 2 1 25	10 59 1 18	3 2 1 5	2 32 2 37	20 42 0 6	21 26 1 27	9 20 16 37	23 27 23 26	8 0 11 48	0 29		
S 6	4 50	23 44 2 5	15 42 3 28	0 33 1 25	10 46 1 18	2 57 1 5	2 33 2 37	20 43 0 6	21 26 1 27	9 19 16 37	23 27 23 26	7 57 11 47	0 29		
S 7	5 13	24 10 0 59	15 38 3 25	1 3 1 25	10 32 1 19	2 52 1 5	2 35 2 37	20 43 0 6	21 26 1 27	9 18 16 37	23 27 23 26	7 55 11 46	0 29		
M 8	5 36	23 12 0n12	15 30 3 21	1 33 1 24	10 19 1 19	2 47 1 5	2 37 2 37	20 44 0 6	21 25 1 28	9 17 16 36	23 27 23 26	7 52 11 45	0 29		
T 9	5 59	20 50 1 23	15 17 3 16	2 3 1 23	10 5 1 19	2 42 1 5	2 39 2 37	20 44 0 6	21 25 1 28	9 16 16 37	23 27 23 27	7 49 11 44	0 29		
W10	6 22	17 12 2 31	15 1 3 9	2 33 1 23	9 52 1 19	2 37 1 5	2 40 2 37	20 45 0 6	21 25 1 28	9 15 16 37	23 27 23 27	7 46 11 43	0 29		
T11	6 45	12 29 3 32	14 39 3 0	3 4 1 22	9 38 1 20	2 32 1 5	2 42 2 36	20 45 0 6	21 25 1 28	9 14 16 37	23 27 23 27	7 44 11 41	0 29		
F12	7 8	6 59 4 19	14 13 2 49	3 34 1 21	9 24 1 20	2 27 1 5	2 44 2 36	20 46 0 6	21 25 1 28	9 14 16 37	23 27 23 27	7 41 11 40	0 29		
S13	7 30	1 2 4 50	13 42 2 37	4 4 1 20	9 11 1 20	2 22 1 5	2 45 2 36	20 47 0 6	21 25 1 28	9 13 16 37	23 27 23 27	7 38 11 39	0 29		
S14	7 53	5n 0 5 2	13 7 2 22	4 34 1 19	8 57 1 20	2 17 1 6	2 47 2 36	20 47 0 6	21 25 1 28	9 12 16 37	23 28 23 27	7 35 11 38	0 30		
M15	8 15	10 43 4 53	12 28 2 6	5 3 1 18	8 43 1 20	2 12 1 6	2 48 2 36	20 48 0 6	21 25 1 28	9 11 16 37	23 28 23 27	7 33 11 37	0 30		
T16	8 38	15 45 4 25	11 46 1 49	5 33 1 17	8 29 1 21	2 8 1 6	2 50 2 36	20 48 0 6	21 25 1 28	9 10 16 37	23 28 23 27	7 30 11 36	0 30		
W17	9 0	19 46 3 41	11 1 1 30	6 3 1 16	8 15 1 21	2 3 1 6	2 52 2 36	20 49 0 5	21 25 1 28	9 9 16 37	23 28 23 27	7 27 11 35	0 30		
T18	9 22	22 32 2 45	10 15 1 10	6 32 1 15	8 1 1 21	1 58 1 6	2 53 2 36	20 49 0 5	21 24 1 28	9 9 16 37	23 28 23 27	7 24 11 34	0 30		
F19	9 44	23 55 1 41	9 28 0 49	7 2 1 14	7 47 1 21	1 53 1 6	2 55 2 36	20 50 0 5	21 24 1 28	9 8 16 37	23 28 23 27	7 21 11 33	0 30		
S20	10 6	23 57 0 34	8 43 0 29	7 31 1 12	7 33 1 22	1 48 1 6	2 56 2 36	20 51 0 5	21 24 1 28	9 7 16 37	23 28 23 27	7 19 11 32	0 30		
S21	10 27	22 43 0s33	8 0 0 8	8 0 1 11	7 19 1 22	1 44 1 6	2 57 2 36	20 51 0 5	21 24 1 28	9 6 16 37	23 28 23 27	7 16 11 30	0 30		
M22	10 49	20 26 1 37	7 20 0n12	8 29 1 10	7 5 1 22	1 39 1 6	2 59 2 35	20 52 0 5	21 24 1 28	9 5 16 37	23 28 23 27	7 13 11 29	0 30		
T23	11 10	17 17 2 35	6 45 0 30	8 58 1 8	6 51 1 22	1 34 1 6	3 0 2 35	20 52 0 5	21 24 1 28	9 5 16 37	23 28 23 27	7 10 11 28	0 30		
W24	11 31	13 29 3 26	6 15 0 48	9 26 1 7	6 37 1 22	1 30 1 7	3 2 2 35	20 53 0 5	21 24 1 28	9 4 16 38	23 28 23 27	7 8 11 27	0 31		
T25	11 52	9 10 4 8	5 51 1 4	9 55 1 5	6 23 1 23	1 25 1 7	3 3 2 35	20 54 0 5	21 24 1 28	9 3 16 38	23 28 23 27	7 5 11 26	0 31		
F26	12 13	4 32 4 39	5 32 1 18	10 23 1 4	6 9 1 23	1 20 1 7	3 4 2 35	20 54 0 5	21 23 1 28	9 2 16 38	23 28 23 28	7 2 11 25	0 31		
S27	12 34	0s18 4 58	5 19 1 31	10 51 1 2	5 54 1 23	1 16 1 7	3 5 2 35	20 55 0 5	21 23 1 28	9 2 16 38	23 28 23 28	6 59 11 24	0 31		
S28	12 54	5 11 5 5	5 13 1 42	11 18 1 0	5 40 1 23	1 11 1 7	3 7 2 35	20 55 0 5	21 23 1 28	9 1 16 38	23 28 23 28	6 57 11 23	0 31		
M29	13 14	9 56 4 57	5 12 1 51	11 46 0 59	5 26 1 23	1 7 1 7	3 8 2 35	20 56 0 5	21 23 1 28	9 0 16 38	23 28 23 28	6 54 11 21	0 31		
T30	13 34	14 22 4 35	5 16 1 58	12 13 0 57	5 12 1 24	1 2 1 7	3 9 2 34	20 57 0 5	21 23 1 28	9 0 16 39	23 28 23 28	6 51 11 20	0 31		
W31	13s54	18s14 3s59	5s25 2n4	12s39 0n55	4n58 1n24	0n58 1n7	3s10 2s34	20s57 0n5	21n23 1s28	8n59 16n39	23s28 23s28	6n48 11n19	0s31		

Julian Day Number = 2353567.5, Delta T = 11.48 sec
Ecliptic obliquity = 23°28'28", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°59'43", Lahiri = 20°06'44"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1731

geocentric

NOVEMBER 1731

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 39 2	8♉ 5'50	21♉44	19♉28	7♉12	21♉21	0♉22	27°R55	4♉24	17°R 2	16♉15	0°R11	1♉42	1♉36	0°R51	T 1
F 2	2 42 58	9° 6'01	4♉50	20°21	8°28	21°57	0°34	27°K52	4°27	17°II 1	16°18	0°36	1°39	1°43	0°K48	F 2
S 3	2 46 55	10° 6'14	18° 8	21°21	9°43	22°33	0°45	27°49	4°31	17° 0	16°20	0° 3	1°36	1°49	0°45	S 3
S 4	2 50 52	11° 6'29	1♉37	22°27	10°58	23°10	0°56	27°47	4°34	16°58	16°22	0°D 2	1°32	1°56	0°43	S 4
M 5	2 54 48	12° 6'46	15°16	23°38	12°14	23°46	1° 8	27°44	4°38	16°57	16°24	0° 3	1°29	2° 3	0°40	M 5
T 6	2 58 45	13° 7'04	29° 5	24°52	13°29	24°22	1°19	27°41	4°41	16°56	16°27	0° 4	1°26	2° 9	0°37	T 6
W 7	3 2 41	14° 7'23	13♉4	26°11	14°44	24°59	1°30	27°39	4°45	16°54	16°29	0°R 5	1°23	2°16	0°34	W 7
T 8	3 6 38	15° 7'43	27°14	27°32	16° 0	25°35	1°41	27°36	4°48	16°53	16°31	0° 4	1°20	2°23	0°31	T 8
F 9	3 10 34	16° 8'05	11♉31	28°56	17°15	26°11	1°52	27°34	4°52	16°52	16°33	0° 2	1°17	2°30	0°28	F 9
S 10	3 14 31	17° 8'29	25°54	0♉22	18°30	26°47	2° 3	27°32	4°55	16°50	16°35	29°K57	1°13	2°36	0°25	S 10
S 11	3 18 27	18° 8'53	10♉19	1°49	19°46	27°23	2°14	27°30	4°59	16°49	16°37	29°51	1°10	2°43	0°22	S 11
M12	3 22 24	19° 9'19	24°40	3°18	21° 1	27°59	2°25	27°28	5° 2	16°47	16°39	29°45	1° 7	2°50	0°20	M12
T 13	3 26 21	20° 9'47	8♉51	4°49	22°16	28°35	2°35	27°26	5° 6	16°46	16°41	29°38	1° 4	2°56	0°17	T 13
W14	3 30 17	21°10'16	22°47	6°20	23°32	29°11	2°46	27°24	5°10	16°44	16°44	29°33	1° 1	3° 3	0°14	W14
T 15	3 34 14	22°10'47	6♉25	7°52	24°47	29°47	2°56	27°22	5°13	16°43	16°46	29°29	0°58	3°10	0°11	T 15
F 16	3 38 10	23°11'19	19°41	9°25	26° 3	0♉23	3° 7	27°21	5°17	16°41	16°48	29°26	0°54	3°16	0° 9	F 16
S 17	3 42 7	24°11'54	2♉36	10°58	27°18	0°59	3°17	27°19	5°21	16°40	16°50	29°D26	0°51	3°23	0° 6	S 17
S 18	3 46 3	25°12'29	15°11	12°32	28°33	1°35	3°27	27°18	5°24	16°38	16°52	29°27	0°48	3°30	0° 3	S 18
M19	3 50 0	26°13'07	27°28	14° 6	29°49	2°11	3°37	27°16	5°28	16°37	16°54	29°29	0°45	3°37	0° 1	M19
T 20	3 53 56	27°13'46	9♉33	15°40	1♉4	2°46	3°47	27°15	5°31	16°35	16°56	29°31	0°42	3°43	29°Y56	T 20
W21	3 57 53	28°14'26	21°28	17°14	2°19	3°22	3°57	27°14	5°35	16°34	16°57	29°32	0°38	3°50	29°58	W21
T 22	4 1 50	29°15'09	3♉19	18°48	3°35	3°58	4° 7	27°13	5°39	16°32	16°59	29°R32	0°35	3°57	29°53	T 22
F 23	4 5 46	0♉15'52	15°12	20°23	4°50	4°33	4°17	27°12	5°42	16°30	17° 1	29°31	0°32	4° 3	29°50	F 23
S 24	4 9 43	1°16'38	27°10	21°57	6° 6	5° 9	4°27	27°11	5°46	16°29	17° 3	29°28	0°29	4°10	29°48	S 24
S 25	4 13 39	2°17'25	9♉19	23°31	7°21	5°45	4°36	27°11	5°50	16°27	17° 5	29°25	0°26	4°17	29°46	S 25
M26	4 17 36	3°18'13	21°41	25° 6	8°36	6°20	4°45	27°10	5°53	16°25	17° 7	29°20	0°23	4°24	29°43	M26
T 27	4 21 32	4°19'03	4♉20	26°40	9°52	6°56	4°55	27°10	5°57	16°24	17° 9	29°16	0°19	4°30	29°41	T 27
W28	4 25 29	5°19'54	17°16	28°14	11° 7	7°31	5° 4	27° 9	6° 1	16°22	17°10	29°12	0°16	4°37	29°39	W28
T 29	4 29 25	6°20'47	0♉29	29°49	12°23	8° 6	5°13	27° 9	6° 5	16°20	17°12	29° 9	0°13	4°44	29°36	T 29
F 30	4 33 22	7♉21'41	13♉59	1♉23	13♉38	8♉42	5♉22	27°K 9	6♉8	16°II19	17°14	29°K 7	0°310	4♉50	29°Y34	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	14s14	21s17	3s11	5s39	2n 9	13s 6	0n53	4n43	1n24	0n53	1n 7	3s11	2s34	20s58	0n 5	21n23
F 2	14 33	23 17	2 11	5 56	2 12	13 32	0 51	4 29	1 24	0 49	1 8	3 12	2 34	20 59	0 5	21 22
S 3	14 52	24 0	1 4	6 17	2 13	13 58	0 49	4 15	1 24	0 44	1 8	3 13	2 34	20 59	0 5	21 22
S 4	15 11	23 19	0n 8	6 40	2 14	14 23	0 47	4 1	1 25	0 40	1 8	3 14	2 34	21 0	0 5	21 22
M 5	15 30	21 15	1 21	7 7	2 14	14 48	0 45	3 47	1 25	0 35	1 8	3 15	2 33	21 1	0 5	21 22
T 6	15 48	17 55	2 30	7 35	2 12	15 13	0 43	3 32	1 25	0 31	1 8	3 16	2 33	21 1	0 5	21 22
W 7	16 6	13 32	3 31	8 6	2 10	15 38	0 41	3 18	1 25	0 27	1 8	3 17	2 33	21 2	0 5	21 22
T 8	16 24	8 23	4 20	8 37	2 8	16 1	0 39	3 4	1 25	0 23	1 8	3 17	2 33	21 2	0 5	21 22
F 9	16 41	2 44	4 53	9 10	2 4	16 25	0 37	2 50	1 25	0 18	1 9	3 18	2 33	21 3	0 5	21 21
S 10	16 59	3n 5	5 8	9 44	2 0	16 48	0 35	2 35	1 26	0 14	1 9	3 19	2 32	21 4	0 5	21 21
S 11	17 16	8 45	5 4	10 19	1 56	17 11	0 33	2 21	1 26	0 10	1 9	3 19	2 32	21 4	0 5	21 21
M12	17 32	13 55	4 41	10 54	1 51	17 33	0 30	2 7	1 26	0 6	1 9	3 20	2 32	21 5	0 5	21 21
T 13	17 49	18 15	4 0	11 29	1 45	17 55	0 28	1 53	1 26	0 2	1 9	3 21	2 32	21 6	0 5	21 21
W14	18 5	21 29	3 6	12 5	1 40	18 16	0 26	1 39	1 26	0s 2	1 9	3 21	2 32	21 6	0 5	21 21
T 15	18 20	23 25	2 2	12 40	1 34	18 37	0 24	1 24	1 27	0 6	1 10	3 22	2 31	21 7	0 5	21 20
F 16	18 36	23 57	0 53	13 16	1 28	18 57	0 21	1 10	1 27	0 10	1 10	3 22	2 31	21 8	0 5	21 20
S 17	18 51	23 10	0s17	13 51	1 21	19 17	0 19	0 56	1 27	0 14	1 10	3 23	2 31	21 8	0 5	21 20
S 18	19 6	21 12	1 25	14 26	1 15	19 36	0 17	0 42	1 27	0 18	1 10	3 23	2 31	21 9	0 5	21 20
M19	19 20	18 17	2 27	15 0	1 8	19 54	0 14	0 28	1 27	0 22	1 10	3 23	2 31	21 10	0 5	21 20
T 20	19 34	14 39	3 22	15 34	1 2	20 12	0 12	0 14	1 27	0 26	1 10	3 24	2 30	21 10	0 5	21 20
W21	19 48	10 28	4 7	16 8	0 55	20 30	0 10	0s 0	1 27	0 30	1 11	3 24	2 30	21 11	0 5	21 19
T 22	20 1	5 56	4 41	16 41	0 48	20 47	0 7	0 14	1 28	0 33	1 11	3 24	2 30	21 12	0 5	21 19
F 23	20 14	1 10	5 4	17 13	0 41	21 3	0 5	0 28	1 28	0 37	1 11	3 24	2 30	21 12	0 5	21 19
S 24	20 27	3s40	5 13	17 44	0 34	21 19	0 2	0 42	1 28	0 41	1 11	3 24	2 30	21 13	0 5	21 19
S 25	20 39	8 25	5 9	18 15	0 27	21 34	0 0	0 56	1 28	0 44	1 11	3 24	2 29	21 14	0 5	21 19
M26	20 51	12 56	4 50	18 45	0 20	21 49	0s 2	1 10	1 28	0 48	1 11	3 24	2 29	21 14	0 5	21 19
T 27	21 2	17 0	4 17	19 14	0 13	22 2	0 5	1 24	1 28	0 52	1 12	3 24	2 29	21 15	0 5	21 18
W28	21 13	20 22	3 30	19 42	0 6	22 16	0 7	1 38	1 28	0 55	1 12	3 24	2 29	21 16	0 5	21 18
T 29	21 24	22 45	2 31	20 9	0s 1	22 28	0 10	1 52	1 29	0 58	1 12	3 24	2 28	21 16	0 5	21 18
F 30	21s34	23s52	1s22	20s35	0s 8	22s40	0s12	2s 6	1n29	1s 2	1n12	3s24	2s28	21s17	0n 5	21n18

Julian Day Number = 2353598.5, Delta T = 11.50 sec
 Ecliptic obliquity = 23°28'27", Nutation = 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°59'48", Lahiri = 20°06'48"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1731

geocentric

DECEMBER 1731

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 37 19	8°22'35	27°43	2°57	14°54	9°17	5°31	27°D 9	6°12	16°R17	17°15	29°D 6	0°3 7	4°57	29°R32	S 1
S 2	4 41 15	9°23'31	11°39	4°31	16° 9	9°52	5°40	27°H 9	6°16	16°II15	17°17	29°H 7	0° 4	5° 4	29°Y30	S 2
M 3	4 45 12	10°24'28	25°43	6° 5	17°24	10°27	5°48	27° 9	6°19	16°14	17°19	29° 8	0° 0	5°11	29°28	M 3
T 4	4 49 8	11°25'25	9°52	7°40	18°40	11° 2	5°57	27° 9	6°23	16°12	17°20	29° 9	29°57	5°17	29°26	T 4
W 5	4 53 5	12°26'23	24° 4	9°14	19°55	11°37	6° 5	27°10	6°27	16°10	17°22	29°10	29°54	5°24	29°24	W 5
T 6	4 57 1	13°27'22	8°16	10°48	21°11	12°12	6°14	27°10	6°30	16° 9	17°24	29°R11	29°51	5°31	29°22	T 6
F 7	5 0 58	14°28'21	22°26	12°22	22°26	12°47	6°22	27°11	6°34	16° 7	17°25	29°11	29°48	5°37	29°20	F 7
S 8	5 4 54	15°29'21	6°32	13°56	23°41	13°22	6°30	27°12	6°38	16° 5	17°27	29°10	29°44	5°44	29°18	S 8
S 9	5 8 51	16°30'21	20°32	15°30	24°57	13°57	6°38	27°13	6°41	16° 4	17°28	29° 9	29°41	5°51	29°16	S 9
M10	5 12 48	17°31'22	4°24	17° 5	26°12	14°32	6°46	27°14	6°45	16° 2	17°29	29° 7	29°38	5°58	29°14	M10
T 11	5 16 44	18°32'24	18° 5	18°39	27°27	15° 7	6°53	27°15	6°49	16° 0	17°31	29° 6	29°35	6° 4	29°13	T 11
W12	5 20 41	19°33'26	1°II34	20°14	28°43	15°41	7° 1	27°16	6°52	15°58	17°32	29° 4	29°32	6°11	29°11	W12
T 13	5 24 37	20°34'28	14°49	21°48	29°58	16°16	7° 8	27°17	6°56	15°57	17°34	29° 4	29°29	6°18	29° 9	T 13
F 14	5 28 34	21°35'32	27°48	23°23	1°14	16°50	7°15	27°18	6°59	15°55	17°35	29°D 3	29°25	6°24	29° 8	F 14
S 15	5 32 30	22°36'36	10°32	24°58	2°29	17°25	7°22	27°20	7° 3	15°53	17°36	29° 4	29°22	6°31	29° 6	S 15
S 16	5 36 27	23°37'40	23° 0	26°33	3°44	17°59	7°29	27°21	7° 7	15°52	17°38	29° 4	29°19	6°38	29° 5	S 16
M17	5 40 23	24°38'46	5°15	28° 9	5° 0	18°34	7°36	27°23	7°10	15°50	17°39	29° 5	29°16	6°45	29° 3	M17
T 18	5 44 20	25°39'52	17°19	29°44	6°15	19° 8	7°43	27°25	7°14	15°48	17°40	29° 5	29°13	6°51	29° 2	T 18
W19	5 48 17	26°40'58	29°15	1°30	7°30	19°42	7°49	27°27	7°17	15°47	17°41	29° 5	29°10	6°58	29° 1	W19
T 20	5 52 13	27°42'06	11°7	2°56	8°46	20°16	7°56	27°29	7°21	15°45	17°42	29° 6	29° 6	7° 5	29° 0	T 20
F 21	5 56 10	28°43'13	23° 0	4°32	10° 1	20°50	8° 2	27°31	7°24	15°43	17°43	29° 6	29° 3	7°11	28°58	F 21
S 22	6 0 6	29°44'22	4°57	6° 8	11°16	21°24	8° 8	27°33	7°28	15°42	17°44	29° 6	29° 0	7°18	28°57	S 22
S 23	6 4 3	0°345'31	17° 4	7°44	12°32	21°58	8°14	27°36	7°31	15°40	17°45	29° 6	28°57	7°25	28°56	S 23
M24	6 7 59	1°46'41	29°26	9°21	13°47	22°32	8°20	27°38	7°35	15°38	17°46	29° 6	28°54	7°32	28°55	M24
T 25	6 11 56	2°47'51	12°11	5°10	15° 2	23° 6	8°25	27°40	7°38	15°37	17°47	29° 6	28°50	7°38	28°54	T 25
W26	6 15 52	3°49'02	25° 6	12°35	16°18	23°40	8°31	27°43	7°42	15°35	17°48	29° 7	28°47	7°45	28°54	W26
T 27	6 19 49	4°50'13	8°30	14°12	17°33	24°13	8°36	27°46	7°45	15°34	17°49	29° 7	28°44	7°52	28°53	T 27
F 28	6 23 46	5°51'24	22°16	15°49	18°48	24°47	8°41	27°49	7°48	15°32	17°50	29°R 8	28°41	7°58	28°52	F 28
S 29	6 27 42	6°52'36	6°23	17°27	20° 4	25°21	8°46	27°52	7°52	15°30	17°51	29° 8	28°38	8° 5	28°51	S 29
S 30	6 31 39	7°53'47	20°46	19° 4	21°19	25°54	8°51	27°55	7°55	15°29	17°52	29° 7	28°35	8°12	28°51	S 30
M31	6 35 35	8°54'59	5°20	20°34	22°34	26°27	8°56	27°58	7°58	15°27	17°53	29°H 6	28°31	8°19	28°Y50	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	21s44	23s35	0s 8	21s 1	0s14	22s51	0s14	2s19	1n29	1s 5	1n12	3s24	2s28	21s18	0n 5	21n18	1s29	8n45	16n49	23s28	23s28	5n22	10n48	0s34	
S 2	21 53	21 49	1n 9	21 25	0 21	23 2	0 17	2 33	1 29	1 8	1 13	3 24	2 28	21 18	0 5	21 18	1 29	8 45	16 49	23 28	23 28	5 19	10 47	0 34	
M 3	22 2	18 43	2 22	21 48	0 27	23 12	0 19	2 47	1 29	1 12	1 13	3 23	2 27	21 19	0 5	21 17	1 29	8 45	16 50	23 28	23 28	5 17	10 46	0 34	
T 4	22 11	14 29	3 26	22 11	0 34	23 21	0 21	3 0	1 29	1 15	1 13	3 23	2 27	21 19	0 5	21 17	1 29	8 45	16 50	23 28	23 28	5 14	10 46	0 34	
W 5	22 19	9 27	4 19	22 32	0 40	23 29	0 24	3 14	1 29	1 18	1 13	3 23	2 27	21 20	0 5	21 17	1 29	8 45	16 51	23 28	23 28	5 11	10 45	0 34	
T 6	22 27	3 55	4 55	22 52	0 46	23 37	0 26	3 28	1 29	1 21	1 13	3 22	2 27	21 21	0 5	21 17	1 29	8 45	16 51	23 28	23 28	5 8	10 44	0 34	
F 7	22 34	1n48	5 14	23 11	0 52	23 44	0 29	3 41	1 30	1 24	1 14	3 22	2 27	21 21	0 5	21 17	1 29	8 44	16 52	23 28	23 28	5 6	10 43	0 34	
S 8	22 41	7 24	5 14	23 28	0 58	23 50	0 31	3 54	1 30	1 27	1 14	3 21	2 26	21 22	0 5	21 17	1 29	8 44	16 52	23 28	23 28	5 3	10 43	0 34	
S 9	22 47	12 34	4 55	23 45	1 4	23 56	0 33	4 8	1 30	1 30	1 14	3 21	2 26	21 23	0 5	21 16	1 29	8 44	16 53	23 28	23 28	5 0	10 42	0 34	
M10	22 53	17 3	4 18	24 0	1 10	24 1	0 35	4 21	1 30	1 33	1 14	3 20	2 26	21 23	0 5	21 16	1 29	8 44	16 53	23 28	23 28	4 57	10 41	0 34	
T 11	22 59	20 34	3 28	24 14	1 15	24 5	0 38	4 35	1 30	1 36	1 15	3 19	2 26	21 24	0 5	21 16	1 29	8 44	16 54	23 28	23 28	4 54	10 41	0 34	
W12	23 4	22 54	2 27	24 27	1 20	24 8	0 40	4 48	1 30	1 39	1 15	3 19	2 25	21 24	0 5	21 16	1 29	8 44	16 54	23 28	23 28	4 52	10 40	0 34	
T 13	23 8	23 54	1 18	24 39	1 26	24 10	0 42	5 1	1 30	1 41	1 15	3 18	2 25	21 25	0 5	21 16	1 29	8 44	16 55	23 28	23 28	4 49	10 39	0 34	
F 14	23 12	23 34	0 7	24 49	1 30	24 12	0 44	5 14	1 30	1 44	1 15	3 17	2 25	21 26	0 5	21 16	1 29	8 44	16 55	23 28	23 28	4 46	10 39	0 34	
S 15	23 16	22 0	1s 3	24 58	1 35	24 13	0 46	5 27	1 30	1 46	1 15	3 16	2 25	21 26	0 5	21 15	1 29	8 44	16 56	23 28	23 28	4 43	10 38	0 34	
S 16	23 19	19 23	2 9	25 5	1 39	24 14	0 48	5 40	1 30	1 49	1 16	3 16	2 24	21 27	0 5	21 15	1 29	8 44	16 56	23 28	23 28	4 41	10 38	0 34	
M17	23 22	15 57	3 8	25 11	1 44	24 13	0 51	5 53	1 31	1 52	1 16	3 15	2 24	21 27	0 5	21 15	1 29	8 44	16 57	23 28	23 28	4 38	10 37	0 35	
T 18	23 24	11 54	3 57	25 16	1 47	24 12	0 53	6 6	1 31	1 54	1 16	3 14	2 24	21 28	0 5	21 15	1 29	8 44	16 57	23 28	23 28	4 35	10 37	0 35	
W19	23 26	7 27	4 35	25 19	1 51	24 10	0 55	6 19	1 31	1 56	1 16	3 13	2 24	21 29	0 5	21 15	1 29	8 44	16 58	23 28	23 28	4 32	10 36	0 35	
T 20	23 27	2 45	5 2	25 21	1 54	24 7	0 57	6 32	1 31	1 59	1 17	3 12	2 24	21 29	0 5	21 15	1 29	8 44	16 58	23 28	23 28	4 29	10 36	0 35	
F 21	23 28	2s 3	5 16	25 21	1 58	24 4	0 59	6 45	1 31	2 1	1 17	3 11	2 23	21 30	0 5	21 14	1 29	8 44	16 59	23 28	23 28	4 27	10 35	0 35	
S 22	23 28	6 48	5 16	25 20	2 0	24 0	1 0	6 57	1 31	2 3	1 17	3 10	2 23	21 30	0 5	21 14	1 28	8 44	16 59	23 28	23 28	4 24	10 35	0 35	
S 23	23 28	11 21	5 2	25 17	2 3	23 55	1 2	7 10	1 31	2 5	1 17	3 9	2 23	21 31	0 5	21 14	1 28	8 45	17 0	23 28	23 28	4 21	10 34	0 35	
M24	23 28	15 33	4 34	25 13	2 5	23 49	1 4	7 22	1 31	2 7	1 18	3 7	2 23	21 32	0 5	21 14	1 28	8 45	17 1	23 28	23 28	4 18	10 34	0 35	
T 25	23 27	19 10	3 52	25 7	2 7	23 43	1 6	7 35	1 31	2 9	1 18	3 6	2 22	21 32	0 5	21 14	1 28	8 45	17 1	23 28	23 28	4 16	10 33	0 35	
W26	23 25	21 57	2 58	25 0	2 8	23 36	1 8	7 47	1 31	2 11	1 18	3 5	2 22	21 33	0 5	21 14	1 28	8 45	17 2	23 28	23 28	4 13	10 33	0 35	
T 27	23 23	23 36	1 52	24 51	2 9	23 28	1 9	8 0	1 31	2 13	1 18	3 4	2 22	21 33	0 5	21 14	1 28	8 45	17 2	23 28	23 28	4 10	10 33	0 35	
F 28	23 21	23 53	0 38	24 41	2 9	23 19	1 11	8 12	1 31	2 15	1 19	3 2	2 22	21 34	0 5	21 13	1 28	8 45	17 3	23 28	23 28	4 7	10 32	0 35	
S 29	23 18	22 39	0n40	24 28	2 9	23 10	1 12	8 24	1 31	2 16	1 19	3 1	2 21	21 34	0 5	21 13	1 28	8 46	17 3	23 28	23 28	4 5	10 32	0 35	
S 30	23 14	19 56	1 57	24 15	2 9	23 0	1 14	8 36	1 31	2 18	1 19	3 0	2 21	21 35	0 5	21 13	1 28	8 46	17 4	23 28	23 28	4 2	10 32	0 35	
M31	23s10	15s56	3n 7	23s59	2s 8	22s49	1s15	8s48	1n31	2s20	1n19	2s58	2s21	21s35	0n 5	21n13	1s28	8n46	17n 4	23s28	23s28	3n59	10n32	0s35	