



Astrodienst Ephemeris Tables for the year 1685

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 1685

geocentric

JANUARY 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 44 57	11°22'02"	15°15'33"	13°33' 3	29°15' 8	0°15'15"	20°23'39"	17°R11	2°R22	29°58'58"	18°R53	7°53'33"	7°52'25"	16°R20	3°R12	M 1
T 2	6 48 54	12°23'13"	0°15' 8	14°42' 0	0°15'19"	0°49' 0	20°45' 17	17°10'10"	2°R22	29°59' 18	18°51' 7	7°33' 7	7°22' 16	16°26' 3	3°12' 1	T 2
W 3	6 52 50	13°24'24"	14°47' 16	16°20' 1°30	1°22' 20	1°22' 20	20°51' 17	17°10' 2°21	0°15' 2	18°50' 7	7°34' 7	7°19' 16	16°33' 3	16°40' 3	11° 1	W 3
T 4	6 56 47	14°25'35"	29°24' 17	17°59' 2°41	1°56' 20	2°57' 17	9° 2°21	0° 3	18°49' 7	7°34' 7	7°16' 16	16°40' 3	11° 1	16°47' 3	10° 1	T 4
F 5	7 0 43	15°26'47"	13°52' 19	19°39' 3°52	2°30' 21	2° 17	8° 2°21	0° 5	18°48' 7	7°34' 7	7°12' 16	16°47' 3	10° 1	16°53' 3	10° 1	F 5
S 6	7 4 40	16°27'57"	28° 6' 21	1°19' 5° 4	3° 3' 21	8° 17	7° 2°21	0° 7	18°46' 7	7°34' 7	7° 9' 16	16°53' 3	10° 1	17° 0' 3	9° 1	S 6
S 7	7 8 37	17°29'07"	12°15' 1	22°59' 6°15	3°37' 21	13° 17	5° 2°20	0° 9	18°45' 7	7°33' 7	7° 6' 17	17° 0' 3	9° 1	17° 13' 3	9° 1	S 7
M 8	7 12 33	18°30'17"	25°33' 24	3°39' 7°27	4°10' 21	18° 17	4° 2°20	0°10' 18	18°44' 7	7°32' 7	7° 3' 17	17° 7' 3	9° 1	17° 13' 3	9° 1	M 8
T 9	7 16 30	19°31'26"	8°15'43"	26°20' 8°38	4°44' 21	23° 17	3° 2°20	0°12' 18	18°42' 7	7°30' 7	7° 0' 17	17° 13' 3	9° 1	17° 13' 3	9° 1	T 9
W10	7 20 26	20°32'34"	21°30' 28	1° 9°50	5°17' 21	28° 17	1° 2°D20	0°14' 18	18°41' 7	7°28' 6	5°56' 17	17°20' 3	9° 1	17°27' 3	9° 1	W10
T 11	7 24 23	21°33'42"	3°15'57"	29°43' 11	2° 5°50	21°33' 17	0° 2°20	0°16' 18	18°40' 7	7°27' 6	5°53' 17	17°27' 3	9° 1	17°27' 3	9° 1	T 11
F 12	7 28 19	22°34'49"	16° 8' 1	12°14' 6°23	21°37' 16	58° 2°20	0°18' 18	18°38' 7	7°26' 6	5°50' 17	17°33' 3	17°33' 3	9° 1	17°33' 3	9° 1	F 12
S 13	7 32 16	23°35'55"	28° 7' 3	13°26' 6°56	21°42' 16	56° 2°21	0°20' 18	18°37' 7	7°D26	6°47' 17	17°40' 3	17°40' 3	9° 1	17°40' 3	9° 1	S 13
S 14	7 36 12	24°37'00"	10°15' 0	4°49' 14	38°729	21°46' 16	54°2°21	0°22' 18	18°36' 7	7°27' 6	44' 17	17°47' 3	9° 1	17°47' 3	9° 1	S 14
M15	7 40 9	25°38'04"	21°50' 6	31°15°50	8° 2' 21	50° 16	52°2°21	0°24' 18	18°35' 7	7°28' 6	41' 17	17°53' 3	9° 1	17°53' 3	9° 1	M15
T 16	7 44 5	26°39'08"	3°11'42"	8°12' 17	2° 8°35	21°54' 16	50°2°21	0°25' 18	18°33' 7	7°30' 6	37' 18	18° 0' 3	9° 1	18° 0' 3	9° 1	T 16
W17	7 48 2	27°40'10"	15°42' 9	54°18°14	9° 7' 21	57° 16	48°2°22	0°27' 18	18°32' 7	7°31' 6	34' 18	18° 7' 3	10° 1	18° 7' 3	10° 1	W17
T 18	7 51 59	28°41'12"	27°52' 11	35°19°26	9°40' 22	1° 16	46°2°22	0°29' 18	18°31' 7	7°32' 6	31' 18	18°13' 3	10° 1	18°13' 3	10° 1	T 18
F 19	7 55 55	29°42'12"	10°52'15"	13°15' 20	38°10°12	22° 4' 16	43°2°23	0°31' 18	18°29' 7	7°R33	6°28' 18	18°20' 3	11° 1	18°20' 3	11° 1	F 19
S 20	7 59 52	0°43'12"	22°53' 14	55°21°51	10°45' 22	7° 16	41°2°23	0°33' 18	18°28' 7	7°32' 6	25' 18	18°27' 3	11° 1	18°27' 3	11° 1	S 20
S 21	8 3 48	1°44'11"	5°12'47"	16°33' 23	3° 11	17° 22	10° 16	38°2°24	0°36' 18	18°27' 7	30' 6	22' 18	18°34' 3	12° 1	18°34' 3	S 21
M22	8 7 45	2°45'09"	18°57' 18	10°24°16	11°49' 22	13° 16	35°2°24	0°38' 18	18°26' 7	7°27' 6	18' 18	18°40' 3	12° 1	18°40' 3	12° 1	M22
T 23	8 11 41	3°46'06"	2°11'21"	19°44' 25	28°12°21	22°15' 16	33°2°25	0°40' 18	18°24' 7	7°23' 6	15' 18	18°47' 3	13° 1	18°47' 3	13° 1	T 23
W24	8 15 38	4°47'02"	15°59' 21	17°26°41	12°53' 22	18° 16	30°2°26	0°42' 18	18°23' 7	7°18' 6	12' 18	18°54' 3	14° 1	18°54' 3	14° 1	W24
T 25	8 19 35	5°47'58"	29°47' 22	46°27°53	13°25' 22	20° 16	27°2°27	0°44' 18	18°22' 7	7°14' 6	9' 19	19° 0' 3	15° 1	19° 0' 3	15° 1	T 25
F 26	8 23 31	6°48'52"	13°44' 24	12°29° 6	13°57' 22	22° 16	24°2°27	0°46' 18	18°21' 7	7°11' 6	6' 19	19° 7' 3	15° 1	19° 7' 3	15° 1	F 26
S 27	8 27 28	7°49'46"	27°47' 25	34°0°19	14°28' 22	24° 16	21°2°28	0°48' 18	18°19' 7	7° 9' 6	2' 19	19°14' 3	16° 1	19°14' 3	16° 1	S 27
S 28	8 31 24	8°50'39"	11°15'4	26°51' 1°31	15° 0' 22	25° 16	17°2°29	0°50' 18	18°18' 7	7°D 9	5°59' 19	19°20' 3	17° 1	19°20' 3	17° 1	S 28
M29	8 35 21	9°51'32"	26° 5' 28	3° 2°44	15°31' 22	27° 16	14°2°30	0°52' 18	18°17' 7	7°10' 6	56' 19	19°27' 3	18° 1	19°27' 3	18° 1	M29
T 30	8 39 17	10°52'23"	10°11'16"	29° 8' 3	57°16° 2	22°28' 16	11°2°31	0°55' 18	18°16' 7	7°11' 6	53' 19	19°34' 3	20° 1	19°34' 3	20° 1	T 30
W31	8 43 14	11°53'14"	24°17'27"	0°15' 7	5°10' 16	33° 22	22°29	16°11' 7	2°R32	0°15'57"	18°15' 7	7°13' 5	5°50' 19	18°40' 3	21° 1	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23s 0	12s32	4n10	24s46	1s56	17s40	2n23	10s15	1n25	6s52	1n18	6n57	2n 2	11n52	0s29	12s 9
T 2	22 54	17 4	3 13	24 38	1 59	17 56	2 22	10 27	1 25	6 54	1 18	6 57	2 2	11 52	0 29	12 8
W 3	22 48	20 34	2 3	24 29	2 1	18 13	2 20	10 39	1 25	6 56	1 19	6 58	2 3	11 52	0 29	12 8
T 4	22 42	22 43	0 45	24 18	2 3	18 28	2 18	10 50	1 25	6 58	1 19	6 58	2 3	11 52	0 28	12 7
F 5	22 35	23 20	0s35	24 5	2 4	18 44	2 16	11 2	1 25	7 0	1 19	6 59	2 3	11 52	0 28	12 6
S 6	22 28	22 24	1 51	23 51	2 5	18 58	2 14	11 14	1 25	7 2	1 19	7 0	2 3	11 52	0 28	12 6
S 7	22 20	20 6	3 0	23 35	2 6	19 13	2 12	11 25	1 25	7 4	1 19	7 0	2 4	11 52	0 28	12 5
M 8	22 12	16 43	3 56	23 18	2 6	19 27	2 10	11 36	1 24	7 6	1 20	7 1	2 4	11 52	0 28	12 5
T 9	22 3	12 36	4 38	22 59	2 6	19 40	2 8	11 48	1 24	7 7	1 20	7 2	2 4	11 52	0 28	12 4
W10	21 54	8 2	5 4	22 38	2 6	19 53	2 6	11 59	1 24	7 9	1 20	7 3	2 4	11 52	0 28	12 3
T 11	21 45	3 15	5 16	22 16	2 4	20 6	2 4	12 10	1 24	7 10	1 20	7 3	2 5	11 52	0 28	12 3
F 12	21 35	1n33	5 13	21 52	2 3	20 18	2 1	12 21	1 24	7 12	1 21	7 4	2 5	11 52	0 28	12 2
S 13	21 25	6 13	4 56	21 27	2 1	20 29	1 59	12 32	1 24	7 13	1 21	7 5	2 5	11 52	0 28	12 1
S 14	21 14	10 37	4 27	21 0	1 58	20 40	1 56	12 43	1 24	7 15	1 21	7 6	2 5	11 52	0 28	12 1
M15	21 3	14 36	3 46	20 31	1 55	20 50	1 54	12 53	1 24	7 16	1 21	7 7	2 6	11 52	0 28	12 0
T 16	20 52	18 3	2 56	20 1	1 51	21 0	1 51	13 4	1 23	7 17	1 22	7 8	2 6	11 52	0 28	11 59
W17	20 40	20 46	1 58	19 30	1 46	21 9	1 48	13 15	1 23	7 18	1 22	7 9	2 6	11 52	0 28	11 58
T 18	20 27	22 35	0 53	18 57	1 41	21 18	1 46	13 25	1 23	7 19	1 22	7 11	2 6	11 53	0 28	11 58
F 19	20 15	23 20	0n15	18 23	1 35	21 26	1 43	13 35	1 23	7 20	1 22	7 12	2 7	11 53	0 28	11 57
S 20	20 2	22 54	1 23	17 47	1 28	21 34	1 40	13 46	1 23	7 21	1 22	7 13	2 7	11 53	0 28	11 56
S 21	19 48	21 16	2 29	17 11	1 20	21 41	1 37	13 56	1 23	7 22	1 23	7 14	2 7	11 53	0 28	11 55
M22	19 35	18 28	3 28	16 33	1 12	21 47	1 34	14 6	1 22	7 23	1 23	7 15	2 7	11 54	0 28	11 55
T 23	19 21	14 39	4 17	15 55	1 3	21 53	1 31	14 16	1 22	7 24	1 23	7 17	2 8	11 54	0 28	11 54
W24	19 6	10 1	4 52	15 16	0 53	21 58	1 29	14 26	1 22	7 24	1 23	7 18	2 8	11 54	0 28	11 53
T 25	18 51	4 50	5 10	14 37	0 42	22 2	1 26	14 35	1 22	7 25	1 24	7 19	2 8	11 54	0 28	11 53
F 26	18 36	0s39	5 11	13 58	0 31	22 6	1 22	14 45	1 22	7 25	1 24	7 21	2 8	11 55	0 28	11 52
S 27	18 21	6 8	4 53	13 19	0 19	22 9	1 19	14 55	1 21	7 26	1 24	7 22	2 9	11 55	0 28	11 51
S 28	18 5	11 21	4 17	12 40	0 5	22 12	1 16	15 4	1 21	7 26	1 24	7 24	2 9	11 55	0 28	11 50
M29	17 49	15 58	3 26	12 2	0n 9	22 14	1 13	15 13	1 21	7 26	1 25	7 25	2 9	11 56	0 28	11 50
T 30	17 32	19 41	2 22	11 26	0 23	22 15	1 10	15 23	1 21	7 27	1 25	7 27	2 9	11 56	0 28	11 49
W31	17s15	22s13	1n 9	10s51	0n39	22s16	1n 7	15s32	1n20	7s27	1n25	7n28	2n 9	11n57	0s28	11s48

Julian Day Number = 2336494.5, Delta T = 20.91 sec
 Ecliptic obliquity = 23°28'47", Nutation = - 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°20'36", Lahiri = 19°27'36"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685

geocentric

FEBRUARY 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 47 10	12°54'04	8°34	0°58	6°23	17°14	22°30	16°R 4	2°34	0°59	18°R13	7°R13	5°47	19°47	3°22	T 1
F 2	8 51 7	13°54'52	22°35	1°40	7°36	17°35	22°31	16°R 0	2°35	1° 1	18°R12	7°R12	5°43	19°54	3°23	F 2
S 3	8 55 4	14°55'40	6°26	2°13	8°49	18° 6	22°31	15°57	2°36	1° 3	18°11	7° 9	5°40	20° 0	3°25	S 3
S 4	8 59 0	15°56'26	20° 4	2°36	10° 2	18°36	22°32	15°53	2°37	1° 6	18°10	7° 4	5°37	20° 7	3°26	S 4
M 5	9 2 57	16°57'11	3°26	2°49	11°15	19° 7	22°R32	15°49	2°39	1° 8	18° 9	6°58	5°34	20°14	3°28	M 5
T 6	9 6 53	17°57'54	16°30	2°R51	12°28	19°37	22°R32	15°45	2°40	1°10	18° 8	6°50	5°31	20°21	3°29	T 6
W 7	9 10 50	18°58'36	29°15	2°42	13°41	20° 7	22°32	15°41	2°41	1°12	18° 7	6°43	5°28	20°27	3°31	W 7
T 8	9 14 46	19°59'16	11°43	2°23	14°54	20°37	22°31	15°37	2°43	1°14	18° 6	6°36	5°24	20°34	3°32	T 8
F 9	9 18 43	20°59'55	23°55	1°54	16° 7	21° 7	22°31	15°33	2°44	1°17	18° 5	6°30	5°21	20°41	3°34	F 9
S 10	9 22 39	22° 0'31	5°55	1°15	17°20	21°36	22°30	15°29	2°46	1°19	18° 4	6°27	5°18	20°47	3°36	S 10
S 11	9 26 36	23° 1'06	17°48	0°28	18°34	22° 6	22°29	15°25	2°48	1°21	18° 2	6°D25	5°15	20°54	3°38	S 11
M12	9 30 32	24° 1'40	29°38	29°33	19°47	22°35	22°28	15°20	2°49	1°23	18° 1	6°25	5°12	21° 1	3°39	M12
T 13	9 34 29	25° 2'11	11°11	28°33	21° 0	23° 4	22°26	15°16	2°51	1°26	18° 0	6°26	5° 8	21° 7	3°41	T 13
W14	9 38 26	26° 2'41	23°30	27°29	22°13	23°33	22°25	15°12	2°53	1°28	17°59	6°28	5° 5	21°14	3°43	W14
T 15	9 42 22	27° 3'09	5°42	26°22	23°27	24° 2	22°23	15° 7	2°55	1°30	17°58	6°R28	5° 2	21°21	3°45	T 15
F 16	9 46 19	28° 3'35	18°12	25°15	24°40	24°30	22°21	15° 3	2°56	1°33	17°58	6°28	4°59	21°27	3°48	F 16
S 17	9 50 15	29° 3'59	1°12	24° 9	25°53	24°59	22°19	14°59	2°58	1°35	17°57	6°25	4°56	21°34	3°50	S 17
S 18	9 54 12	0°42	14°11	23° 6	27° 7	25°27	22°16	14°54	3° 0	1°37	17°56	6°19	4°53	21°41	3°52	S 18
M19	9 58 8	1° 4'42	27°44	22° 6	28°20	25°55	22°14	14°50	3° 2	1°39	17°55	6°12	4°49	21°47	3°54	M19
T 20	10 2 5	2° 5'01	11°11	29°33	20°12	29°33	22°11	14°45	3° 4	1°42	17°54	6° 3	4°46	21°54	3°56	T 20
W21	10 6 1	3° 5'18	25°41	20°23	0°47	26°51	22° 8	14°40	3° 6	1°44	17°53	5°53	4°43	22° 1	3°59	W21
T 22	10 9 58	4° 5'34	9°58	19°41	2° 0	27°18	22° 5	14°36	3° 8	1°46	17°52	5°44	4°40	22° 7	4° 1	T 22
F 23	10 13 55	5° 5'48	24°19	19° 6	3°13	27°45	22° 2	14°31	3°11	1°48	17°51	5°36	4°37	22°14	4° 4	F 23
S 24	10 17 51	6° 6'00	8°13	18°38	4°27	28°12	21°59	14°26	3°13	1°51	17°50	5°31	4°33	22°21	4° 6	S 24
S 25	10 21 48	7° 6'11	22°55	18°17	5°40	28°39	21°55	14°22	3°15	1°53	17°50	5°28	4°30	22°28	4° 9	S 25
M26	10 25 44	8° 6'21	7°4	18° 3	6°54	29° 6	21°52	14°17	3°17	1°55	17°49	5°D27	4°27	22°34	4°11	M26
T 27	10 29 41	9° 6'29	21° 5	17°55	8° 7	29°32	21°48	14°12	3°20	1°58	17°48	5°27	4°24	22°41	4°14	T 27
W28	10 33 37	10°6'35	4°57	17°D55	9°21	29°15	21°44	14°11	3°22	2°0	17°47	5°R28	4°21	22°48	4°17	W28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	16s58	23s20	0s 7	10s18	0n55	22s16	1n 4	15s41	1n20	7s27	1n25	7n30	2n10	11n57	0s28	11s47
F 2	16 41	22 57	1 23	9 48	1 11	22 15	1 0	15 50	1 20	7 27	1 26	7 31	2 10	11 57	0 28	11 47
S 3	16 23	21 9	2 32	9 21	1 28	22 14	0 57	15 59	1 19	7 27	1 26	7 33	2 10	11 58	0 28	11 46
S 4	16 5	18 10	3 32	8 57	1 44	22 12	0 54	16 7	1 19	7 27	1 26	7 35	2 10	11 58	0 28	11 45
M 5	15 47	14 16	4 18	8 37	2 1	22 10	0 51	16 16	1 19	7 27	1 26	7 36	2 10	11 59	0 27	11 44
T 6	15 28	9 47	4 50	8 21	2 17	22 6	0 48	16 24	1 18	7 26	1 27	7 38	2 11	11 59	0 27	11 43
W 7	15 10	4 59	5 6	8 9	2 33	22 2	0 44	16 33	1 18	7 26	1 27	7 40	2 11	12 0	0 27	11 43
T 8	14 51	0 5	5 8	8 2	2 47	21 58	0 41	16 41	1 18	7 26	1 27	7 41	2 11	12 0	0 27	11 42
F 9	14 31	4n43	4 55	8 0	3 1	21 53	0 38	16 49	1 17	7 25	1 27	7 43	2 11	12 1	0 27	11 41
S 10	14 12	9 17	4 29	8 2	3 13	21 47	0 35	16 57	1 17	7 25	1 28	7 45	2 11	12 1	0 27	11 40
S 11	13 52	13 27	3 52	8 9	3 24	21 40	0 31	17 5	1 17	7 24	1 28	7 47	2 11	12 2	0 27	11 39
M12	13 32	17 5	3 6	8 20	3 32	21 33	0 28	17 13	1 16	7 23	1 28	7 48	2 12	12 3	0 27	11 39
T 13	13 12	20 3	2 11	8 35	3 39	21 26	0 25	17 21	1 16	7 23	1 28	7 50	2 12	12 3	0 27	11 38
W14	12 52	22 10	1 9	8 53	3 43	21 17	0 22	17 29	1 15	7 22	1 29	7 52	2 12	12 4	0 27	11 37
T 15	12 31	23 17	0 4	9 13	3 45	21 8	0 19	17 36	1 15	7 21	1 29	7 54	2 12	12 5	0 27	11 36
F 16	12 10	23 17	1n 3	9 36	3 44	20 59	0 15	17 43	1 15	7 20	1 29	7 56	2 12	12 5	0 27	11 35
S 17	11 49	22 3	2 8	10 1	3 41	20 48	0 12	17 51	1 14	7 19	1 29	7 58	2 12	12 6	0 27	11 35
S 18	11 28	19 36	3 8	10 26	3 37	20 38	0 9	17 58	1 14	7 18	1 30	8 0	2 12	12 7	0 27	11 34
M19	11 7	16 1	3 59	10 51	3 30	20 26	0 6	18 5	1 13	7 17	1 30	8 1	2 13	12 7	0 27	11 33
T 20	10 45	11 30	4 38	11 16	3 22	20 14	0 3	18 12	1 13	7 16	1 30	8 3	2 13	12 8	0 27	11 32
W21	10 23	6 18	5 0	11 41	3 12	20 1	0s 0	18 19	1 12	7 14	1 30	8 5	2 13	12 9	0 27	11 31
T 22	10 2	0 42	5 4	12 5	3 1	19 48	0 3	18 26	1 12	7 13	1 30	8 7	2 13	12 9	0 27	11 31
F 23	9 40	4s58	4 49	12 27	2 49	19 34	0 6	18 32	1 11	7 12	1 31	8 9	2 13	12 10	0 27	11 30
S 24	9 17	10 22	4 16	12 47	2 36	19 20	0 9	18 39	1 10	7 10	1 31	8 11	2 13	12 11	0 27	11 29
S 25	8 55	15 12	3 27	13 6	2 23	19 5	0 12	18 45	1 10	7 9	1 31	8 13	2 13	12 12	0 27	11 28
M26	8 33	19 8	2 25	13 24	2 10	18 50	0 15	18 52	1 9	7 7	1 31	8 15	2 13	12 13	0 27	11 27
T 27	8 10	21 55	1 16	13 39	1 56	18 34	0 18	18 58	1 9	7 6	1 31	8 17	2 13	12 13	0 27	11 27
W28	7s47	23s21	0n 3	13s52	1n42	18s17	0s21	19s 4	1n 8	7s 4	1n32	8n19	2n14	12n14	0s27	11s26

Julian Day Number = 2336525.5, Delta T = 20.87 sec

Ecliptic obliquity = 23°28'48, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°20'40, Lahiri = 19°27'40Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685
geocentric

MARCH 1685 GC

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s25	23s20	1s10	14s 4	1n28	18s 0	0s24	19s10	1n 7	7s 2	1n32	8n21	2n14	12n15	0s27	11s25
F 2	7 2	21 55	2 17	14 13	1 15	17 42	0 27	19 16	1 7	7 0	1 32	8 22	2 14	12 16	0 27	11 24
S 3	6 39	19 17	3 16	14 20	1 1	17 24	0 29	19 22	1 6	6 58	1 32	8 24	2 14	12 17	0 27	11 23
S 4	6 16	15 41	4 4	14 26	0 48	17 6	0 32	19 28	1 5	6 56	1 32	8 26	2 14	12 18	0 27	11 23
M 5	5 53	11 22	4 38	14 30	0 35	16 47	0 35	19 34	1 4	6 55	1 33	8 28	2 14	12 19	0 27	11 22
T 6	5 29	6 37	4 57	14 31	0 23	16 27	0 37	19 39	1 4	6 52	1 33	8 30	2 14	12 19	0 27	11 21
W 7	5 6	1 41	5 1	14 31	0 10	16 7	0 40	19 45	1 3	6 50	1 33	8 32	2 14	12 20	0 27	11 20
T 8	4 43	3n14	4 51	14 30	0s 1	15 47	0 42	19 50	1 2	6 48	1 33	8 34	2 14	12 21	0 27	11 19
F 9	4 19	7 57	4 27	14 26	0 13	15 26	0 45	19 55	1 1	6 46	1 33	8 36	2 14	12 22	0 27	11 19
S 10	3 56	12 19	3 53	14 21	0 24	15 4	0 47	20 1	1 1	6 44	1 33	8 38	2 14	12 23	0 27	11 18
S 11	3 32	16 10	3 8	14 14	0 34	14 43	0 50	20 6	1 0	6 41	1 34	8 39	2 14	12 24	0 27	11 17
M 12	3 9	19 22	2 15	14 5	0 44	14 20	0 52	20 11	0 59	6 39	1 34	8 41	2 14	12 25	0 27	11 16
T 13	2 45	21 47	1 16	13 55	0 54	13 58	0 54	20 16	0 58	6 37	1 34	8 43	2 14	12 26	0 27	11 16
W 14	2 21	23 15	0 14	13 43	1 3	13 35	0 56	20 20	0 57	6 34	1 34	8 45	2 14	12 27	0 27	11 15
T 15	1 58	23 38	0n51	13 29	1 11	13 12	0 59	20 25	0 56	6 32	1 34	8 47	2 14	12 28	0 26	11 14
F 16	1 34	22 51	1 54	13 14	1 20	12 48	1 1	20 30	0 55	6 29	1 34	8 48	2 14	12 29	0 26	11 13
S 17	1 10	20 52	2 54	12 58	1 27	12 24	1 3	20 34	0 54	6 27	1 34	8 50	2 14	12 30	0 26	11 13
S 18	0 47	17 42	3 46	12 40	1 35	12 0	1 5	20 39	0 53	6 24	1 34	8 52	2 14	12 31	0 26	11 12
M 19	0 23	13 29	4 27	12 20	1 41	11 35	1 7	20 43	0 52	6 22	1 35	8 54	2 14	12 32	0 26	11 11
T 20	0n 1	8 25	4 52	12 0	1 48	11 10	1 8	20 48	0 51	6 19	1 35	8 55	2 14	12 33	0 26	11 10
W 21	0 24	2 47	5 0	11 37	1 54	10 45	1 10	20 52	0 50	6 16	1 35	8 57	2 14	12 34	0 26	11 10
T 22	0 48	3s 6	4 48	11 14	1 59	10 19	1 12	20 56	0 49	6 14	1 35	8 59	2 14	12 35	0 26	11 9
F 23	1 12	8 52	4 17	10 49	2 4	9 53	1 13	21 0	0 47	6 11	1 35	9 0	2 14	12 36	0 26	11 8
S 24	1 35	14 6	3 29	10 22	2 8	9 27	1 15	21 4	0 46	6 8	1 35	9 2	2 14	12 37	0 26	11 7
S 25	1 59	18 28	2 27	9 54	2 12	9 0	1 17	21 8	0 45	6 5	1 35	9 4	2 14	12 38	0 26	11 7
M 26	2 22	21 38	1 17	9 25	2 16	8 34	1 18	21 12	0 44	6 3	1 35	9 5	2 14	12 39	0 26	11 6
T 27	2 46	23 24	0 4	8 55	2 19	8 7	1 19	21 16	0 42	6 0	1 35	9 7	2 14	12 40	0 26	11 5
W 28	3 9	23 42	1s 9	8 23	2 21	7 40	1 21	21 20	0 41	5 57	1 35	9 8	2 14	12 41	0 26	11 5
T 29	3 32	22 34	2 16	7 51	2 23	7 12	1 22	21 24	0 40	5 54	1 35	9 10	2 14	12 42	0 26	11 4
F 30	3 56	20 12	3 14	7 16	2 25	6 45	1 23	21 27	0 38	5 51	1 35	9 11	2 14	12 44	0 26	11 3
S 31	4n19	16s49	4s 1	6s41	2s26	6s17	1s24	21s31	0n37	5s48	1n35	9n13	2n14	12n45	0s26	11s 3

Julian Day Number = 2336553.5, Delta T = 20.83 sec
Ecliptic obliquity = 23°28'49", Nutation = - 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'44", Lahiri = 19°27'44"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685

geocentric

APRIL 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 39 47	11°52'23	8°25	20°21	18°37	11°11	18°24	11°R44	4°53	3°7	17°36	2°R15	2°39	26°21	6°2	S 1
M 2	12 43 44	12°51'24	21° 7	21°57	19°50	11°26	18°17	11°41	4°57	3° 9	17°36	2°3	2°36	26°28	6° 6	M 2
T 3	12 47 40	13°50'23	3°38	23°34	21° 4	11°40	18° 9	11°37	5° 0	3°11	17°36	1°50	2°33	26°35	6°10	T 3
W 4	12 51 37	14°49'20	15°59	25°13	22°18	11°53	18° 1	11°33	5° 3	3°13	17°36	1°37	2°30	26°41	6°14	W 4
T 5	12 55 33	15°48'14	28° 9	26°53	23°31	12° 6	17°54	11°30	5° 7	3°15	17°36	1°24	2°26	26°48	6°18	T 5
F 6	12 59 30	16°47'07	10°11	28°35	24°45	12°18	17°46	11°26	5°10	3°16	17°37	1°13	2°23	26°55	6°22	F 6
S 7	13 3 26	17°45'58	22° 5	0°18	25°59	12°30	17°38	11°23	5°13	3°18	17°37	1° 4	2°20	27° 1	6°25	S 7
S 8	13 7 23	18°44'46	3°54	2° 3	27°12	12°41	17°30	11°20	5°17	3°20	17°37	0°58	2°17	27° 8	6°29	S 8
M 9	13 11 19	19°43'32	15°41	3°49	28°26	12°52	17°23	11°16	5°20	3°22	17°37	0°55	2°14	27°15	6°33	M 9
T 10	13 15 16	20°42'17	27°30	5°37	29°40	13° 2	17°15	11°13	5°23	3°23	17°37	0°D54	2°10	27°21	6°37	T 10
W11	13 19 13	21°40'59	9°27	7°27	0°53	13°12	17° 7	11°10	5°27	3°25	17°38	0°54	2° 7	27°28	6°41	W11
T 12	13 23 9	22°39'38	21°37	9°18	2° 7	13°21	17° 0	11° 7	5°30	3°27	17°38	0°R54	2° 4	27°35	6°45	T 12
F 13	13 27 6	23°38'16	4°10	11°10	3°20	13°29	16°52	11° 4	5°33	3°28	17°38	0°54	2° 1	27°41	6°49	F 13
S 14	13 31 2	24°36'51	16°54	13° 5	4°34	13°36	16°45	11° 2	5°37	3°30	17°39	0°51	1°58	27°48	6°53	S 14
S 15	13 34 59	25°35'24	0°10	15° 0	5°48	13°43	16°37	10°59	5°40	3°31	17°39	0°47	1°55	27°55	6°57	S 15
M16	13 38 55	26°33'55	13°56	16°58	7° 1	13°50	16°29	10°56	5°44	3°33	17°39	0°40	1°51	28° 1	7° 1	M16
T 17	13 42 52	27°32'23	28°11	18°57	8°15	13°56	16°22	10°54	5°47	3°35	17°40	0°32	1°48	28° 8	7° 5	T 17
W18	13 46 48	28°30'50	12°50	20°57	9°29	14° 1	16°15	10°51	5°51	3°36	17°40	0°22	1°45	28°15	7° 9	W18
T 19	13 50 45	29°29'14	27°48	22°59	10°42	14° 5	16° 7	10°49	5°54	3°38	17°41	0°13	1°42	28°21	7°13	T 19
F 20	13 54 42	0°27'37	12°55	25° 2	11°56	14° 9	16° 0	10°47	5°57	3°39	17°41	0° 5	1°39	28°28	7°17	F 20
S 21	13 58 38	1°25'58	28° 2	27° 7	13° 9	14°12	15°53	10°44	6° 1	3°40	17°42	29°59	1°36	28°35	7°21	S 21
S 22	14 2 35	2°24'17	12°58	29°12	14°23	14°14	15°46	10°42	6° 4	3°42	17°42	29°56	1°32	28°41	7°25	S 22
M23	14 6 31	3°22'35	27°37	1°19	15°37	14°15	15°39	10°40	6° 8	3°43	17°43	29°D55	1°29	28°48	7°29	M23
T 24	14 10 28	4°20'51	11°55	3°27	16°50	14°16	15°32	10°39	6°11	3°45	17°43	29°55	1°26	28°55	7°34	T 24
W25	14 14 24	5°19'06	25°50	5°36	18° 4	14°R16	15°25	10°37	6°15	3°46	17°44	29°56	1°23	29° 1	7°38	W25
T 26	14 18 21	6°17'19	9°23	7°45	19°17	14°16	15°18	10°35	6°18	3°47	17°45	29°R56	1°20	29° 8	7°42	T 26
F 27	14 22 17	7°15'31	22°36	9°55	20°31	14°14	15°11	10°33	6°22	3°48	17°45	29°55	1°16	29°15	7°46	F 27
S 28	14 26 14	8°13'41	5°30	12° 4	21°45	14°12	15° 5	10°32	6°25	3°50	17°46	29°52	1°13	29°21	7°50	S 28
S 29	14 30 11	9°11'50	18°10	14°14	22°58	14° 9	14°58	10°31	6°29	3°51	17°47	29°46	1°10	29°28	7°54	S 29
M30	14 34 7	10°9'57	0°37	16°23	24°12	14° 6	14°52	10°29	6°32	3°52	17°47	29°39	1° 7	29°35	7°58	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	4n42	12s40	4s35	6s 5	2s27	5s49	1s25	21s35	0n35	5s45	1n35	9n14	2n14	12n46	0s26	S 1
M 2	5 5	8 2	4 55	5 27	2 27	5 21	1 26	21 38	0 34	5 42	1 35	9 15	2 14	12 47	0 26	M 2
T 3	5 28	3 9	5 0	4 48	2 26	4 53	1 27	21 42	0 32	5 39	1 35	9 17	2 14	12 48	0 26	T 3
W 4	5 51	1n49	4 51	4 8	2 26	4 25	1 28	21 45	0 30	5 37	1 35	9 18	2 14	12 49	0 26	W 4
T 5	6 14	6 39	4 29	3 27	2 24	3 56	1 29	21 48	0 29	5 34	1 35	9 19	2 13	12 50	0 26	T 5
F 6	6 36	11 11	3 55	2 44	2 22	3 28	1 30	21 52	0 27	5 31	1 35	9 20	2 13	12 51	0 26	F 6
S 7	6 59	15 15	3 11	2 1	2 20	2 59	1 30	21 55	0 25	5 28	1 35	9 22	2 13	12 52	0 26	S 7
S 8	7 21	18 42	2 18	1 17	2 17	2 30	1 31	21 58	0 24	5 25	1 35	9 23	2 13	12 54	0 26	S 8
M 9	7 44	21 23	1 20	0 31	2 14	2 1	1 31	22 1	0 22	5 22	1 35	9 24	2 13	12 55	0 26	M 9
T 10	8 6	23 9	0 18	0n15	2 10	1 32	1 32	22 4	0 20	5 19	1 35	9 25	2 13	12 56	0 26	T 10
W11	8 28	23 54	0n45	1 3	2 5	1 3	1 32	22 7	0 18	5 16	1 35	9 26	2 13	12 57	0 26	W11
T 12	8 50	23 31	1 48	1 51	2 0	0 34	1 32	22 10	0 16	5 13	1 35	9 27	2 13	12 58	0 26	T 12
F 13	9 12	21 59	2 47	2 40	1 55	0 5	1 32	22 13	0 14	5 10	1 35	9 28	2 13	12 59	0 26	F 13
S 14	9 33	19 17	3 40	3 30	1 49	0n24	1 33	22 16	0 12	5 8	1 35	9 29	2 13	13 0	0 26	S 14
S 15	9 55	15 31	4 22	4 21	1 42	0 53	1 33	22 19	0 10	5 5	1 35	9 30	2 12	13 2	0 26	S 15
M16	10 16	10 48	4 51	5 12	1 35	1 22	1 33	22 22	0 8	5 2	1 35	9 31	2 12	13 3	0 26	M16
T 17	10 37	5 22	5 4	6 4	1 28	1 52	1 33	22 25	0 6	4 59	1 35	9 32	2 12	13 4	0 26	T 17
W18	10 58	0s31	4 57	6 57	1 20	2 21	1 32	22 28	0 3	4 56	1 35	9 33	2 12	13 5	0 26	W18
T 19	11 19	6 31	4 30	7 50	1 12	2 50	1 32	22 31	0 1	4 54	1 35	9 33	2 12	13 6	0 26	T 19
F 20	11 39	12 11	3 44	8 44	1 3	3 19	1 32	22 33	0s 1	4 51	1 35	9 34	2 12	13 7	0 26	F 20
S 21	12 0	17 7	2 42	9 37	0 54	3 48	1 32	22 36	0 3	4 48	1 35	9 35	2 12	13 8	0 26	S 21
S 22	12 20	20 55	1 30	10 31	0 45	4 17	1 31	22 39	0 6	4 46	1 34	9 36	2 12	13 10	0 26	S 22
M23	12 40	23 15	0 12	11 25	0 35	4 45	1 31	22 41	0 8	4 43	1 34	9 36	2 11	13 11	0 26	M23
T 24	12 59	24 0	1s 4	12 18	0 25	5 14	1 30	22 44	0 11	4 40	1 34	9 37	2 11	13 12	0 26	T 24
W25	13 19	23 13	2 15	13 11	0 14	5 43	1 30	22 47	0 14	4 38	1 34	9 37	2 11	13 13	0 26	W25
T 26	13 38	21 5	3 16	14 4	0 4	6 11	1 29	22 49	0 16	4 35	1 34	9 38	2 11	13 14	0 26	T 26
F 27	13 57	17 51	4 5	14 55	0n 7	6 40	1 28	22 52	0 19	4 33	1 34	9 38	2 11	13 15	0 26	F 27
S 28	14 16	13 50	4 40	15 46	0 17	7 8	1 27	22 54	0 22	4 31	1 34	9 39	2 11	13 17	0 26	S 28
S 29	14 35	9 18	5 1	16 35	0 28	7 36	1 27	22 57	0 24	4 28	1 33	9 39	2 11	13 18	0 26	S 29
M30	14n53	4s27	5s 7	17n23	0n39	8n 4	1s26	22s59	0s27	4s26	1n33	9n39	2n10	13n19	0s26	M30

Julian Day Number = 2336584.5, Delta T = 20.79 sec

Ecliptic obliquity = 23°28'49, Nutation = - 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°20'48, Lahiri = 19°27'49Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685
geocentric

MAY 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 38 4	11♌ 8'02	12♍ 53	18♊ 31	25♍ 25	14°R 1	14°R45	10°R28	6♌ 36	3♋ 53	17♎ 48	29°R30	1♏ 4	29♌ 41	8♉ 2	T 1
W 2	14 42 0	12° 6'06	25° 0	20°38	26°39	13♌ 56	14♌ 39	10♍ 27	6°39	3°54	17°49	29♍ 21	1° 1	29°48	8° 6	W 2
T 3	14 45 57	13° 4'09	7♌ 0	22°44	27°53	13°50	14°33	10°26	6°42	3°55	17°50	29°13	0°57	29°55	8°10	T 3
F 4	14 49 53	14° 2'10	18°54	24°48	29° 6	13°43	14°27	10°25	6°46	3°56	17°50	29° 5	0°54	0♐ 1	8°14	F 4
S 5	14 53 50	15° 0'09	0♐ 44	26°50	0♌ 20	13°36	14°21	10°24	6°49	3°57	17°51	29° 0	0°51	0° 8	8°18	S 5
S 6	14 57 46	15°58'07	12°31	28°51	1°33	13°27	14°16	10°24	6°53	3°58	17°52	28°56	0°48	0°15	8°22	S 6
M 7	15 1 43	16°56'03	24°19	0♐ 48	2°47	13°18	14°10	10°23	6°56	3°59	17°53	28°D55	0°45	0°21	8°26	M 7
T 8	15 5 40	17°53'57	6♌ 10	2°44	4° 0	13° 9	14° 5	10°23	7° 0	4° 0	17°54	28°55	0°42	0°28	8°30	T 8
W 9	15 9 36	18°51'50	18° 9	4°36	5°14	12°58	13°59	10°22	7° 3	4° 1	17°55	28°56	0°38	0°35	8°34	W 9
T 10	15 13 33	19°49'41	0♌ 19	6°26	6°28	12°47	13°54	10°22	7° 6	4° 2	17°56	28°58	0°35	0°41	8°38	T 10
F 11	15 17 29	20°47'30	12°46	8°13	7°41	12°35	13°49	10°22	7°10	4° 3	17°57	28°59	0°32	0°48	8°42	F 11
S 12	15 21 26	21°45'18	25°33	9°57	8°55	12°23	13°44	10°D22	7°13	4° 4	17°58	28°R59	0°29	0°55	8°47	S 12
S 13	15 25 22	22°43'03	8♍ 45	11°37	10° 8	12° 9	13°40	10°22	7°17	4° 5	17°59	28°58	0°26	1° 1	8°50	S 13
M14	15 29 19	23°40'47	22°25	13°14	11°22	11°55	13°35	10°22	7°20	4° 5	18° 0	28°55	0°22	1° 8	8°54	M14
T 15	15 33 15	24°38'30	6♌ 33	14°48	12°35	11°41	13°31	10°22	7°23	4° 6	18° 1	28°51	0°19	1°15	8°58	T 15
W16	15 37 12	25°36'10	21° 8	16°19	13°49	11°26	13°27	10°23	7°27	4° 7	18° 2	28°47	0°16	1°21	9° 2	W16
T 17	15 41 9	26°33'50	6♌ 4	17°46	15° 3	11°10	13°23	10°23	7°30	4° 7	18° 3	28°42	0°13	1°28	9° 6	T 17
F 18	15 45 5	27°31'28	21°15	19°10	16°16	10°54	13°19	10°24	7°33	4° 8	18° 4	28°38	0°10	1°35	9°10	F 18
S 19	15 49 2	28°29'04	6♌ 30	20°31	17°30	10°37	13°15	10°25	7°37	4° 9	18° 5	28°35	0° 7	1°41	9°14	S 19
S 20	15 52 58	29°26'40	21°38	21°48	18°43	10°20	13°12	10°25	7°40	4° 9	18° 6	28°D34	0° 3	1°48	9°18	S 20
M21	15 56 55	0♐ 24'14	6♌ 32	23° 1	19°57	10° 2	13° 8	10°26	7°43	4°10	18° 7	28°34	0° 0	1°55	9°22	M21
T 22	16 0 51	1°21'48	21° 5	24°11	21°10	9°44	13° 5	10°27	7°46	4°10	18° 8	28°35	29♐ 57	2° 1	9°26	T 22
W23	16 4 48	2°19'20	5♌ 12	25°17	22°24	9°26	13° 2	10°28	7°50	4°11	18°10	28°37	29°54	2° 8	9°30	W23
T 24	16 8 44	3°16'52	18°54	26°19	23°37	9° 7	12°59	10°30	7°53	4°11	18°11	28°38	29°51	2°15	9°34	T 24
F 25	16 12 41	4°14'22	2♌ 10	27°17	24°51	8°47	12°56	10°31	7°56	4°12	18°12	28°R39	29°48	2°21	9°37	F 25
S 26	16 16 38	5°11'52	15° 4	28°12	26° 5	8°28	12°54	10°32	7°59	4°12	18°13	28°38	29°44	2°28	9°41	S 26
S 27	16 20 34	6° 9'21	27°40	29° 3	27°18	8° 8	12°51	10°34	8° 2	4°12	18°14	28°37	29°41	2°34	9°45	S 27
M28	16 24 31	7° 6'49	9♍ 59	29°49	28°32	7°48	12°49	10°35	8° 5	4°13	18°16	28°34	29°38	2°41	9°49	M28
T 29	16 28 27	8° 4'17	22° 7	0♌ 32	29°45	7°28	12°47	10°37	8° 9	4°13	18°17	28°32	29°35	2°48	9°52	T 29
W30	16 32 24	9° 1'43	4♌ 5	1°10	0♐ 59	7° 8	12°45	10°39	8°12	4°13	18°18	28°28	29°32	2°54	9°56	W30
T 31	16 36 20	9♐ 59'09	15♌ 58	1°44	2♐ 12	6♌ 47	12°44	10♍ 41	8♌ 15	4♋ 13	18°20	28♐ 25	29♐ 28	3♐ 1	10♌ 0	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	15n12	0n31 4s59	18n 9 0n49	8n32 1s25	23s 1 0s30	4s24 1n33	9n40 2n10	13n20 0s26	10s46 0s43	23n13 0n56	23n29 23n29	17n30 13n 0	1s17		
W 2	15 30	5 24 4 37	18 53 0 59	9 0 1 24	23 4 0 33	4 21 1 33	9 40 2 10	13 21 0 26	10 46 0 43	23 13 0 56	23 29 23 29	17 32 13 1	1 17		
T 3	15 47	10 2 4 3	19 36 1 9	9 27 1 23	23 6 0 36	4 19 1 33	9 40 2 10	13 22 0 26	10 45 0 43	23 13 0 56	23 29 23 29	17 34 13 2	1 17		
F 4	16 5	14 17 3 19	20 16 1 18	9 54 1 21	23 8 0 39	4 17 1 33	9 40 2 10	13 23 0 26	10 45 0 43	23 13 0 56	23 29 23 29	17 36 13 3	1 17		
S 5	16 22	17 57 2 27	20 54 1 27	10 21 1 20	23 10 0 42	4 15 1 32	9 41 2 10	13 25 0 26	10 45 0 43	23 13 0 56	23 29 23 29	17 38 13 5	1 17		
S 6	16 39	20 53 1 28	21 29 1 35	10 48 1 19	23 12 0 45	4 13 1 32	9 41 2 9	13 26 0 26	10 44 0 43	23 13 0 56	23 29 23 29	17 40 13 6	1 18		
M 7	16 55	22 57 0 25	22 2 1 43	11 14 1 18	23 14 0 48	4 11 1 32	9 41 2 9	13 27 0 26	10 44 0 43	23 13 0 56	23 29 23 29	17 43 13 7	1 18		
T 8	17 12	24 0 0n39	22 33 1 50	11 41 1 16	23 16 0 52	4 9 1 32	9 41 2 9	13 28 0 26	10 44 0 43	23 13 0 56	23 29 23 29	17 45 13 8	1 18		
W 9	17 28	23 57 1 43	23 0 1 57	12 7 1 15	23 18 0 55	4 7 1 32	9 41 2 9	13 29 0 26	10 43 0 43	23 12 0 56	23 29 23 29	17 47 13 9	1 18		
T 10	17 43	22 46 2 43	23 26 2 2	12 32 1 13	23 20 0 58	4 5 1 31	9 41 2 9	13 30 0 26	10 43 0 43	23 12 0 56	23 29 23 29	17 49 13 11	1 18		
F 11	17 59	20 28 3 36	23 49 2 7	12 58 1 12	23 22 1 1	4 4 1 31	9 41 2 9	13 31 0 26	10 43 0 43	23 12 0 56	23 29 23 29	17 51 13 12	1 18		
S 12	18 14	17 7 4 21	24 9 2 12	13 23 1 10	23 23 1 5	4 2 1 31	9 40 2 8	13 32 0 26	10 43 0 43	23 12 0 56	23 29 23 29	17 53 13 13	1 18		
S 13	18 29	12 49 4 53	24 27 2 15	13 48 1 9	23 25 1 8	4 0 1 31	9 40 2 8	13 33 0 26	10 42 0 43	23 12 0 56	23 29 23 29	17 55 13 14	1 18		
M14	18 43	7 46 5 10	24 42 2 18	14 12 1 7	23 26 1 11	3 59 1 31	9 40 2 8	13 35 0 26	10 42 0 43	23 12 0 56	23 29 23 29	17 57 13 15	1 18		
T 15	18 58	2 8 5 9	24 55 2 19	14 36 1 5	23 28 1 15	3 57 1 30	9 40 2 8	13 36 0 26	10 42 0 43	23 12 0 56	23 29 23 29	17 59 13 16	1 18		
W16	19 12	3s48 4 49	25 6 2 20	15 0 1 4	23 29 1 18	3 56 1 30	9 40 2 8	13 37 0 26	10 42 0 44	23 12 0 57	23 28 23 29	18 2 13 18	1 19		
T 17	19 25	9 39 4 9	25 15 2 20	15 23 1 2	23 30 1 22	3 54 1 30	9 39 2 8	13 38 0 26	10 41 0 44	23 12 0 57	23 28 23 29	18 4 13 19	1 19		
F 18	19 38	15 2 3 10	25 21 2 20	15 46 1 0	23 31 1 25	3 53 1 30	9 39 2 7	13 39 0 26	10 41 0 44	23 12 0 57	23 28 23 29	18 6 13 20	1 19		
S 19	19 51	19 29 1 58	25 26 2 18	16 9 0 58	23 32 1 29	3 52 1 29	9 38 2 7	13 40 0 26	10 41 0 44	23 12 0 57	23 28 23 29	18 8 13 21	1 19		
S 20	20 4	22 35 0 38	25 29 2 15	16 31 0 56	23 33 1 32	3 51 1 29	9 38 2 7	13 41 0 26	10 41 0 44	23 11 0 57	23 28 23 29	18 10 13 22	1 19		
M21	20 16	24 3 0s44	25 30 2 12	16 53 0 54	23 34 1 36	3 50 1 29	9 37 2 7	13 42 0 26	10 41 0 44	23 11 0 57	23 28 23 29	18 12 13 23	1 19		
T 22	20 28	23 49 2 1	25 29 2 8	17 15 0 52	23 35 1 39	3 49 1 29	9 37 2 7	13 43 0 26	10 41 0 44	23 11 0 57	23 28 23 29	18 14 13 24	1 19		
W23	20 40	22 2 3 8	25 26 2 3	17 35 0 50	23 36 1 43	3 48 1 29	9 36 2 7	13 44 0 26	10 40 0 44	23 11 0 57	23 28 23 29	18 16 13 26	1 19		
T 24	20 51	19 1 4 2	25 23 1 57	17 56 0 48	23 36 1 46	3 47 1 28	9 36 2 6	13 45 0 26	10 40 0 44	23 11 0 57	23 28 23 29	18 18 13 27	1 19		
F 25	21 2	15 6 4 42	25 17 1 50	18 16 0 46	23 36 1 50	3 46 1 28	9 35 2 6	13 46 0 26	10 40 0 44	23 11 0 57	23 28 23 29	18 20 13 28	1 20		
S 26	21 12	10 35 5 6	25 11 1 42	18 36 0 44	23 37 1 53	3 45 1 28	9 34 2 6	13 47 0 26	10 40 0 44	23 11 0 57	23 28 23 29	18 22 13 29	1 20		
S 27	21 22	5 45 5 15	25 3 1 34	18 55 0 42	23 37 1 56	3 45 1 27	9 34 2 6	13 48 0 26	10 40 0 44	23 11 0 57	23 28 23 29	18 24 13 30	1 20		
M28	21 32	0 46 5 9	24 53 1 25	19 13 0 40	23 37 2 0	3 44 1 27	9 33 2 6	13 49 0 26	10 40 0 44	23 10 0 57	23 28 23 29	18 26 13 31	1 20		
T 29	21 41	4n 9 4 49	24 43 1 15	19 31 0 37	23 37 2 3	3 43 1 27	9 32 2 6	13 50 0 26	10 40 0 44	23 10 0 57	23 28 23 29	18 28 13 32	1 20		
W30	21 50	8 53 4 16	24 32 1 4	19 49 0 35	23 37 2 6	3 43 1 27	9 31 2 5	13 51 0 26	10 40 0 44	23 10 0 57	23 28 23 29	18 31 13 33	1 20		
T 31	21n59	13n14 3s33	24n20 0n52	20n 6 0s33	23s37 2s10	3s43 1n26	9n30 2n 5	13n52	0s26 10s40	0s44 23n10	0n57 23n28	23n29 18n33	13n34 1s20		

Julian Day Number = 2336614.5, Delta T = 20.74 sec
Ecliptic obliquity = 23°28'49", Nutation = - 0°00'18", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'52", Lahiri = 19°27'53"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685
geocentric

JUNE 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 40 17	10♈56'34	27♌47	2♊14	3♊26	6°R27	12°R42	10♈43	8♌18	4♈13	18♌21	28°R23	29♈25	3♈8	10♌3	F 1
S 2	16 44 13	11°53'59	9♈34	2°40	4°40	6♌7	12♌41	10°45	8°21	4°14	18°22	28♈21	29°22	3°14	10°7	S 2
S 3	16 48 10	12°51'22	21°23	3°0	5°53	5°47	12°40	10°47	8°24	4°14	18°23	28°20	29°19	3°21	10°11	S 3
M 4	16 52 7	13°48'45	3♌15	3°17	7°7	5°27	12°39	10°49	8°27	4°14	18°25	28°D20	29°16	3°28	10°14	M 4
T 5	16 56 3	14°46'07	15°13	3°28	8°20	5°7	12°38	10°52	8°30	4°14	18°26	28°21	29°13	3°34	10°18	T 5
W 6	17 0 0	15°43'28	27°19	3°36	9°34	4°47	12°38	10°54	8°33	4°R14	18°28	28°22	29°9	3°41	10°21	W 6
T 7	17 3 56	16°40'48	9♌36	3°R38	10°48	4°28	12°37	10°57	8°36	4°14	18°29	28°23	29°6	3°48	10°25	T 7
F 8	17 7 53	17°38'07	22°8	3°36	12°1	4°9	12°37	10°59	8°39	4°14	18°30	28°24	29°3	3°54	10°28	F 8
S 9	17 11 49	18°35'25	4♈57	3°30	13°15	3°50	12°D37	11°2	8°41	4°14	18°32	28°25	29°0	4°1	10°32	S 9
S 10	17 15 46	19°32'42	18°7	3°19	14°29	3°32	12°37	11°5	8°44	4°14	18°33	28°R25	28°57	4°8	10°35	S 10
M 11	17 19 42	20°29'59	1♌40	3°5	15°42	3°14	12°38	11°8	8°47	4°13	18°35	28°25	28°54	4°14	10°38	M 11
T 12	17 23 39	21°27'14	15°38	2°46	16°56	2°57	12°38	11°11	8°50	4°13	18°36	28°24	28°50	4°21	10°42	T 12
W 13	17 27 36	22°24'29	29°59	2°24	18°9	2°40	12°39	11°14	8°52	4°13	18°38	28°24	28°47	4°28	10°45	W 13
T 14	17 31 32	23°21'42	14♈43	1°58	19°23	2°24	12°40	11°17	8°55	4°13	18°39	28°23	28°44	4°34	10°48	T 14
F 15	17 35 29	24°18'56	29°42	1°30	20°37	2°8	12°41	11°21	8°58	4°12	18°40	28°23	28°41	4°41	10°52	F 15
S 16	17 39 25	25°16'08	14♌49	0°59	21°50	1°53	12°42	11°24	9°1	4°12	18°42	28°22	28°38	4°48	10°55	S 16
S 17	17 43 22	26°13'21	29°55	0°26	23°4	1°38	12°43	11°28	9°3	4°12	18°43	28°D22	28°34	4°54	10°58	S 17
M 18	17 47 18	27°10'32	14♌52	29♈52	24°18	1°25	12°45	11°31	9°6	4°11	18°45	28°22	28°31	5°1	11°1	M 18
T 19	17 51 15	28°7'44	29°31	29°17	25°31	1°11	12°47	11°35	9°8	4°11	18°46	28°R23	28°28	5°8	11°4	T 19
W 20	17 55 12	29°4'56	13♌47	28°42	26°45	0°59	12°49	11°39	9°11	4°11	18°48	28°23	28°25	5°14	11°7	W 20
T 21	17 59 8	0♌2'07	27°38	28°7	27°59	0°47	12°51	11°43	9°13	4°10	18°50	28°22	28°22	5°21	11°10	T 21
F 22	18 3 5	0°59'18	11♌1	27°34	29°12	0°36	12°53	11°46	9°16	4°10	18°51	28°22	28°19	5°28	11°13	F 22
S 23	18 7 1	1°56'29	24°0	27°1	0♌26	0°26	12°55	11°50	9°18	4°9	18°53	28°22	28°15	5°34	11°16	S 23
S 24	18 10 58	2°53'41	6♈37	26°31	1°40	0°17	12°58	11°55	9°20	4°9	18°54	28°D22	28°12	5°41	11°19	S 24
M 25	18 14 54	3°50'52	18°55	26°4	2°53	0°8	13°1	11°59	9°23	4°8	18°56	28°22	28°9	5°48	11°22	M 25
T 26	18 18 51	4°48'04	0♌59	25°40	4°7	0°0	13°4	12°3	9°25	4°7	18°57	28°23	28°6	5°54	11°25	T 26
W 27	18 22 47	5°45'15	12°54	25°19	5°21	29♈53	13°7	12°7	9°27	4°7	18°59	28°23	28°3	6°1	11°27	W 27
T 28	18 26 44	6°42'27	24°43	25°2	6°35	29°47	13°10	12°12	9°30	4°6	19°0	28°24	28°0	6°8	11°30	T 28
F 29	18 30 41	7°39'39	6♈31	24°50	7°48	29°42	13°14	12°16	9°32	4°5	19°2	28°25	27°56	6°14	11°33	F 29
S 30	18 34 37	8°36'52	18♈20	24♈42	9♌2	29♈38	13♌17	12♈21	9♌34	4♈5	19°4	28♈26	27♈53	6♈21	11♌36	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
F 1	22n 7	17n 5	2s41	24n 7	0n39	20n22	0s31	23s36	2s13	3s42	1n26	9n29	2n 5	13n53	0s26	10s40	0s44	23n10	0n57	23n28	23n29	18n35	13n35	1s20	
S 2	22 15	20 15	1 42	23 53	0 26	20 38	0 28	23 36	2 16	3 42	1 26	9 28	2 5	13 54	0 26	10 40	0 44	23 10	0 57	23 28	23 29	18 37	13 36	1 21	
S 3	22 23	22 34	0 38	23 39	0 12	20 54	0 26	23 35	2 19	3 42	1 26	9 27	2 5	13 55	0 26	10 40	0 44	23 10	0 57	23 28	23 29	18 39	13 37	1 21	
M 4	22 30	23 54	0n27	23 24	0s 2	21 9	0 24	23 35	2 22	3 42	1 25	9 26	2 5	13 56	0 26	10 40	0 44	23 10	0 57	23 28	23 29	18 41	13 38	1 21	
T 5	22 37	24 8	1 32	23 9	0 17	21 23	0 21	23 34	2 25	3 42	1 25	9 25	2 4	13 57	0 26	10 40	0 44	23 9	0 57	23 28	23 29	18 43	13 39	1 21	
W 6	22 43	23 15	2 34	22 53	0 33	21 36	0 19	23 33	2 28	3 42	1 25	9 24	2 4	13 58	0 26	10 40	0 44	23 9	0 58	23 28	23 29	18 45	13 40	1 21	
T 7	22 49	21 14	3 29	22 37	0 49	21 50	0 17	23 33	2 31	3 42	1 25	9 23	2 4	13 59	0 26	10 40	0 44	23 9	0 58	23 28	23 29	18 47	13 41	1 21	
F 8	22 54	18 11	4 16	22 21	1 5	22 2	0 14	23 32	2 34	3 42	1 24	9 22	2 4	14 0	0 26	10 40	0 44	23 9	0 58	23 28	23 29	18 49	13 42	1 21	
S 9	22 59	14 13	4 51	22 4	1 22	22 14	0 12	23 31	2 37	3 42	1 24	9 21	2 4	14 1	0 26	10 40	0 44	23 9	0 58	23 28	23 29	18 51	13 43	1 21	
S 10	23 4	9 30	5 12	21 48	1 39	22 25	0 10	23 30	2 39	3 42	1 24	9 20	2 4	14 2	0 26	10 40	0 44	23 9	0 58	23 28	23 29	18 53	13 44	1 22	
M11	23 8	4 11	5 17	21 31	1 56	22 35	0 7	23 29	2 42	3 43	1 24	9 18	2 3	14 3	0 26	10 40	0 44	23 9	0 58	23 28	23 29	18 55	13 45	1 22	
T 12	23 12	1s30	5 3	21 15	2 12	22 45	0 5	23 28	2 44	3 43	1 23	9 17	2 3	14 3	0 26	10 40	0 44	23 8	0 58	23 28	23 29	18 57	13 46	1 22	
W13	23 16	7 16	4 31	20 59	2 29	22 55	0 2	23 27	2 47	3 44	1 23	9 16	2 3	14 4	0 26	10 40	0 44	23 8	0 58	23 28	23 28	18 59	13 47	1 22	
T 14	23 19	12 47	3 40	20 43	2 45	23 3	0 0	23 26	2 49	3 44	1 23	9 14	2 3	14 5	0 26	10 40	0 45	23 8	0 58	23 28	23 28	19 1	13 48	1 22	
F 15	23 21	17 38	2 33	20 28	3 1	23 11	0n 2	23 25	2 51	3 45	1 22	9 13	2 3	14 6	0 26	10 40	0 45	23 8	0 58	23 28	23 28	19 3	13 48	1 22	
S 16	23 24	21 23	1 15	20 13	3 16	23 18	0 5	23 24	2 54	3 46	1 22	9 11	2 3	14 7	0 26	10 41	0 45	23 8	0 58	23 28	23 28	19 5	13 49	1 22	
S 17	23 26	23 37	0s 9	19 59	3 30	23 25	0 7	23 24	2 56	3 47	1 22	9 10	2 2	14 8	0 26	10 41	0 45	23 8	0 58	23 28	23 28	19 7	13 50	1 23	
M18	23 27	24 9	1 30	19 46	3 43	23 31	0 9	23 23	2 58	3 47	1 22	9 8	2 2	14 9	0 26	10 41	0 45	23 8	0 58	23 28	23 28	19 9	13 51	1 23	
T 19	23 28	22 58	2 45	19 34	3 55	23 36	0 12	23 22	3 0	3 48	1 21	9 7	2 2	14 9	0 26	10 41	0 45	23 7	0 58	23 28	23 28	19 11	13 52	1 23	
W20	23 29	20 20	3 47	19 23	4 6	23 41	0 14	23 21	3 2	3 49	1 21	9 5	2 2	14 10	0 26	10 41	0 45	23 7	0 58	23 28	23 28	19 13	13 53	1 23	
T 21	23 29	16 35	4 33	19 13	4 15	23 44	0 16	23 20	3 3	3 50	1 21	9 4	2 2	14 11	0 26	10 42	0 45	23 7	0 58	23 28	23 28	19 15	13 53	1 23	
F 22	23 29	12 7	5 3	19 4	4 23	23 47	0 19	23 20	3 5	3 52	1 21	9 2	2 2	14 12	0 26	10 42	0 45	23 7	0 58	23 28	23 28	19 17	13 54	1 23	
S 23	23 28	7 14	5 17	18 57	4 30	23 50	0 21	23 19	3 7	3 53	1 20	9 0	2 2	14 12	0 26	10 42	0 45	23 7	0 58	23 28	23 28	19 19	13 55	1 23	
S 24	23 27	2 11	5 14	18 51	4 35	23 52	0 23	23 19	3 8	3 54	1 20	8 59	2 1	14 13	0 26	10 42	0 45	23 7	0 58	23 28	23 28	19 21	13 56	1 24	
M25	23 25	2n50	4 58	18 47	4 38	23 53	0 26	23 18	3 10	3 55	1 20	8 57	2 1	14 14	0 26	10 42	0 45	23 6	0 59	23 28	23 28	19 23	13 56	1 24	
T 26	23 24	7 39	4 28	18 44	4 40	23 53	0 28	23 18	3 11	3 57	1 19	8 55	2 1	14 15	0 26	10 43	0 45	23 6	0 59	23 28	23 28	19 25	13 57	1 24	
W27	23 21	12 8	3 47	18 43	4 41	23 52	0 30	23 18	3 13	3 58	1 19	8 53	2 1	14 15	0 26	10 43	0 45	23 6	0 59	23 28	23 28	19 27	13 58	1 24	
T 28	23 19	16 8	2 56	18 44	4 40	23 51	0 32	23 18	3 14	4 0	1 19	8 52	2 1	14 16	0 26	10 43	0 45	23 6	0 59	23 28	23 28	19 28	13 58	1 24	
F 29	23 15	19 29	1 59	18 45	4 38	23 49	0 35	23 18	3 15	4 1	1 19	8 50	2 1	14 17	0 26	10 44	0 45	23 6	0 59	23 28	23 28	19 30	13 59	1 24	
S 30	23n12	22n 2	0s56	18n49	4s34	23n47	0n37	23s18	3s16	4s 3	1n18	8n48	2n 1	14n17	0s26	10s44	0s45	23n 6	0n59	23n28	23n28	19n32	14n 0	1s24	

ASTRODIENST EPHEMERIS for the year 1685
geocentric

JULY 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 38 34	9♂34°04	0♂13	24°D39	10♂16	29°R34	13♂21	12♂25	9♂36	4°R 4	19♂5	28°R26	27♂50	6♂28	11♂38	S 1
M 2	18 42 30	10°31'17	12°13	24♂40	11°30	29♂31	13°25	12°30	9°38	4♂3	19°7	28♂25	27°47	6°34	11°41	M 2
T 3	18 46 27	11°28'29	24°22	24°47	12°43	29°29	13°29	12°35	9°40	4°2	19°8	28°24	27°44	6°41	11°43	T 3
W 4	18 50 23	12°25'42	6♂41	24°59	13°57	29°28	13°33	12°40	9°42	4°1	19°10	28°23	27°40	6°48	11°46	W 4
T 5	18 54 20	13°22'55	19°12	25°16	15°11	29°D28	13°38	12°45	9°44	4°1	19°12	28°21	27°37	6°54	11°48	T 5
F 6	18 58 16	14°20'08	1♂57	25°38	16°25	29°28	13°42	12°50	9°46	4°0	19°13	28°19	27°34	7°1	11°50	F 6
S 7	19 2 13	15°17'20	14°57	26°6	17°39	29°30	13°47	12°55	9°48	3°59	19°15	28°17	27°31	7°7	11°53	S 7
S 8	19 6 10	16°14'33	28°12	26°39	18°53	29°32	13°52	13°0	9°50	3°58	19°16	28°15	27°28	7°14	11°55	S 8
M 9	19 10 6	17°11'46	11♂45	27°17	20°6	29°35	13°57	13°5	9°52	3°57	19°18	28°D14	27°25	7°21	11°57	M 9
T 10	19 14 3	18°8'59	25°36	28°0	21°20	29°39	14°2	13°10	9°53	3°56	19°20	28°14	27°21	7°27	11°59	T 10
W 11	19 17 59	19°6'11	9♂45	28°48	22°34	29°44	14°8	13°16	9°55	3°55	19°21	28°15	27°18	7°34	12°2	W 11
T 12	19 21 56	20°3'24	24°10	29°42	23°48	29°50	14°13	13°21	9°57	3°54	19°23	28°16	27°15	7°41	12°4	T 12
F 13	19 25 52	21°0'38	8♂48	0♂40	25°2	29°56	14°19	13°27	9°58	3°53	19°24	28°18	27°12	7°47	12°6	F 13
S 14	19 29 49	21°57'51	23°35	1°43	26°16	0♂3	14°25	13°32	10°0	3°52	19°26	28°R18	27°9	7°54	12°8	S 14
S 15	19 33 45	22°55'05	8♂25	2°52	27°29	0°11	14°31	13°38	10°1	3°50	19°28	28°18	27°6	8°1	12°10	S 15
M 16	19 37 42	23°52'19	23°10	4°5	28°43	0°20	14°37	13°43	10°3	3°49	19°29	28°17	27°2	8°7	12°11	M 16
T 17	19 41 39	24°49'34	7♂43	5°22	29°57	0°29	14°43	13°49	10°4	3°48	19°31	28°14	26°59	8°14	12°13	T 17
W 18	19 45 35	25°46'50	21°58	6°45	1♂11	0°39	14°49	13°55	10°6	3°47	19°32	28°10	26°56	8°21	12°15	W 18
T 19	19 49 32	26°44'06	5♂50	8°11	2°25	0°50	14°56	14°1	10°7	3°46	19°34	28°6	26°53	8°27	12°17	T 19
F 20	19 53 28	27°41'23	19°18	9°43	3°39	1°2	15°2	14°7	10°8	3°44	19°36	28°2	26°50	8°34	12°18	F 20
S 21	19 57 25	28°38'40	2°V20	11°18	4°53	1°14	15°9	14°13	10°10	3°43	19°37	27°59	26°46	8°41	12°20	S 21
S 22	20 1 21	29°35'59	14°59	12°57	6°7	1°27	15°16	14°19	10°11	3°42	19°39	27°57	26°43	8°47	12°21	S 22
M 23	20 5 18	0♂33'19	27°19	14°40	7°21	1°40	15°23	14°25	10°12	3°41	19°40	27°D56	26°40	8°54	12°23	M 23
T 24	20 9 14	1°30'40	9♂24	16°27	8°35	1°55	15°30	14°31	10°13	3°39	19°42	27°56	26°37	9°1	12°24	T 24
W 25	20 13 11	2°28'02	21°18	18°17	9°49	2°10	15°37	14°37	10°14	3°38	19°44	27°57	26°34	9°7	12°26	W 25
T 26	20 17 8	3°25'25	3♂7	20°9	11°3	2°25	15°45	14°43	10°15	3°37	19°45	27°59	26°31	9°14	12°27	T 26
F 27	20 21 4	4°22'49	14°55	22°5	12°16	2°41	15°52	14°49	10°16	3°35	19°47	28°0	26°27	9°21	12°28	F 27
S 28	20 25 1	5°20'14	26°47	24°3	13°30	2°58	16°0	14°56	10°17	3°34	19°48	28°R 1	26°24	9°27	12°30	S 28
S 29	20 28 57	6°17'41	8♂46	26°2	14°44	3°16	16°8	15°2	10°18	3°32	19°50	28°0	26°21	9°34	12°31	S 29
M 30	20 32 54	7°15'08	20°57	28°3	15°58	3°34	16°16	15°8	10°19	3°31	19°51	27°58	26°18	9°40	12°32	M 30
T 31	20 36 50	8♂12'36	3♂19	0♂6	17♂12	3♂53	16♂24	15♂15	10♂20	3♂30	19♂53	27♂54	26♂15	9♂47	12♂33	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
S 1	23n 8	23n39	0n10	18n54	4s29	23n44	0n39	23s18	3s17	4s 5	1n18	8n46	2n 1	14n18	0s26	10s44	0s45	23n 5	0n59	23n28	23n28	19n34	14n 0	1s25					
M 2	23 4	24 10	1 16	19 0	4 23	23 40	0 41	23 18	3 18	4 7	1 18	8 44	2 0	14 19	0 26	10 44	0 45	23 5	0 59	23 28	23 28	19 36	14 1	1 25					
T 3	22 59	23 33	2 19	19 7	4 16	23 35	0 43	23 19	3 19	4 8	1 18	8 42	2 0	14 19	0 26	10 45	0 45	23 5	0 59	23 28	23 28	19 38	14 2	1 25					
W 4	22 54	21 48	3 16	19 16	4 7	23 30	0 45	23 19	3 20	4 10	1 17	8 40	2 0	14 20	0 26	10 45	0 45	23 5	0 59	23 28	23 28	19 40	14 2	1 25					
T 5	22 48	18 58	4 5	19 26	3 58	23 24	0 47	23 20	3 21	4 12	1 17	8 38	2 0	14 21	0 26	10 45	0 45	23 5	0 59	23 28	23 28	19 42	14 3	1 25					
F 6	22 42	15 12	4 43	19 36	3 48	23 17	0 49	23 21	3 22	4 14	1 17	8 36	2 0	14 21	0 26	10 46	0 45	23 5	0 59	23 28	23 27	19 44	14 3	1 25					
S 7	22 36	10 40	5 7	19 48	3 37	23 9	0 51	23 22	3 22	4 16	1 17	8 34	2 0	14 22	0 26	10 46	0 45	23 4	0 59	23 28	23 27	19 46	14 4	1 26					
S 8	22 29	5 32	5 16	20 0	3 26	23 1	0 53	23 23	3 23	4 18	1 16	8 32	2 0	14 22	0 26	10 47	0 45	23 4	0 59	23 28	23 27	19 48	14 5	1 26					
M 9	22 22	0 3	5 7	20 13	3 14	22 52	0 55	23 24	3 23	4 21	1 16	8 30	2 0	14 23	0 26	10 47	0 45	23 4	0 59	23 28	23 27	19 50	14 5	1 26					
T 10	22 15	5s33	4 41	20 27	3 1	22 43	0 57	23 26	3 24	4 23	1 16	8 28	1 59	14 23	0 26	10 47	0 45	23 4	0 59	23 28	23 27	19 52	14 6	1 26					
W 11	22 7	11 1	3 57	20 40	2 48	22 33	0 58	23 27	3 24	4 25	1 16	8 25	1 59	14 24	0 26	10 48	0 45	23 4	0 59	23 28	23 27	19 53	14 6	1 26					
T 12	21 59	15 59	2 57	20 54	2 35	22 22	1 0	23 29	3 25	4 28	1 15	8 23	1 59	14 24	0 26	10 48	0 45	23 4	1 0	23 28	23 27	19 55	14 7	1 26					
F 13	21 50	20 4	1 45	21 7	2 21	22 11	1 2	23 30	3 25	4 30	1 15	8 21	1 59	14 25	0 26	10 49	0 45	23 3	1 0	23 28	23 27	19 57	14 7	1 27					
S 14	21 41	22 54	0 26	21 21	2 8	21 58	1 3	23 32	3 25	4 32	1 15	8 19	1 59	14 25	0 26	10 49	0 45	23 3	1 0	23 28	23 27	19 59	14 7	1 27					
S 15	21 32	24 8	0s55	21 34	1 53	21 46	1 5	23 34	3 26	4 35	1 15	8 17	1 59	14 26	0 26	10 49	0 46	23 3	1 0	23 28	23 27	20 1	14 8	1 27					
M 16	21 22	23 40	2 13	21 46	1 39	21 32	1 7	23 36	3 26	4 38	1 14	8 14	1 59	14 26	0 26	10 50	0 46	23 3	1 0	23 28	23 27	20 3	14 8	1 27					
T 17	21 12	21 35	3 20	21 57	1 25	21 18	1 8	23 38	3 26	4 40	1 14	8 12	1 59	14 27	0 26	10 50	0 46	23 3	1 0	23 28	23 27	20 5	14 9	1 27					
W 18	21 1	18 12	4 13	22 7	1 11	21 4	1 10	23 41	3 26	4 43	1 14	8 10	1 59	14 27	0 26	10 51	0 46	23 3	1 0	23 28	23 27	20 7	14 9	1 27					
T 19	20 51	13 52	4 50	22 17	0 57	20 48	1 11	23 43	3 26	4 46	1 14	8 7	1 58	14 28	0 26	10 51	0 46	23 2	1 0	23 28	23 27	20 9	14 9	1 28					
F 20	20 40	8 59	5 10	22 24	0 43	20 32	1 12	23 46	3 26	4 48	1 13	8 5	1 58	14 28	0 26	10 52	0 46	23 2	1 0	23 28	23 27	20 10	14 10	1 28					
S 21	20 28	3 51	5 12	22 30	0 30	20 16	1 14	23 48	3 26	4 51	1 13	8 3	1 58	14 28	0 26	10 52	0 46	23 2	1 0	23 28	23 26	20 12	14 10	1 28					
S 22	20 16	1n19	5 0	22 34	0 17	19 59	1 15	23 51	3 26	4 54	1 13	8 0	1 58	14 29	0 26	10 53	0 46	23 2	1 0	23 28	23 26	20 14	14 10	1 28					
M 23	20 4	6 17	4 33	22 36	0 4	19 41	1 16	23 54	3 26	4 57	1 13	7 58	1 58	14 29	0 26	10 53	0 46	23 2	1 0	23 28	23 26	20 16	14 11	1 28					
T 24	19 51	10 56	3 55	22 36	0n 8	19 23	1 17	23 56	3 26	5 0	1 13	7 55	1 58	14 29	0 26	10 54	0 46	23 2	1 0	23 28	23 26	20 18	14 11	1 29					
W 25	19 39	15 6	3 7	22 34	0 20	19 5	1 18	23 59	3 26	5 3	1 12	7 53	1 58	14 30	0 26	10 54	0 46	23 1	1 0	23 28	23 26	20 20	14 11	1 29					
T 26	19 25	18 39	2 12	22 29	0 31	18 45	1 19	24 2	3 26	5 6	1 12	7 50	1 58	14 30	0 26	10 55	0 46	23 1	1 0	23 28	23 26	20 21	14 11	1 29					
F 27	19 12	21 27	1 11	22 21	0 42	18 26	1 20	24 5	3 25	5 9	1 12	7 48	1 58	14 30	0 26	10 55	0 46	23 1	1 1	23 28	23 26	20 23	14 12	1 29					
S 28	18 58	23 20	0 7	22 11	0 51	18 5	1 21	24 9	3 25	5 12	1 12	7 45	1 58	14 31	0 26	10 56	0 46	23 1	1 1	23 28	23 26	20 25	14 12	1 29					
S 29	18 44	24 10	0n58	21 58	1 0	17 45	1 22	24 12	3 25	5 15	1 11	7 43	1 58	14 31	0 26	10 56	0 46	23 1	1 1	23 28	23 26	20 27	14 12	1 29					
M 30	18 29	23 51	2 2	21 42	1 8	17 45	1 23	24 15	3 25	5 19	1 11	7 40	1 58	14 31	0 26	10 57	0 46	23 1	1 1	23 28	23 26	20 29	14 12	1 30					
T 31	18n15	22n22	3n 0	18n24	1n16	17n 2	1n23	24s18	3s24	5s22	1n11	7n38	1n57	14n31	0s26	10s57	0s46	23n 0	1n 1	23n28	23n26	20n31	14n12	1s30					

ASTRODIENST EPHEMERIS for the year 1685
geocentric

AUGUST 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 40 47	9♉10°06	15♊56	2♊9	18♊26	4♊12	16♊32	15♊21	10♊20	3♊28	19♊54	27♊48	26♊12	9♊54	12♊34	W 1
T 2	20 44 43	10° 7'36	28°47	4°13	19°41	4°32	16°40	15°28	10°21	3°27	19°56	27°41	26° 8	10° 0	12°35	T 2
F 3	20 48 40	11° 5'08	11♊57	6°17	20°55	4°52	16°49	15°35	10°22	3°25	19°58	27°34	26° 5	10° 7	12°36	F 3
S 4	20 52 37	12° 2'40	25°10	8°22	22° 9	5°13	16°57	15°41	10°22	3°24	19°59	27°27	26° 2	10°14	12°36	S 4
S 5	20 56 33	13° 0'13	8♊41	10°25	23°23	5°35	17° 6	15°48	10°23	3°22	20° 1	27°21	25°59	10°20	12°37	S 5
M 6	21 0 30	13°57'47	22°23	12°29	24°37	5°57	17°15	15°55	10°23	3°21	20° 2	27°17	25°56	10°27	12°38	M 6
T 7	21 4 26	14°55'22	6♊15	14°31	25°51	6°19	17°23	16° 1	10°24	3°19	20° 4	27°15	25°52	10°34	12°38	T 7
W 8	21 8 23	15°52'58	20°18	16°33	27° 5	6°42	17°32	16° 8	10°24	3°18	20° 5	27°D15	25°49	10°40	12°39	W 8
T 9	21 12 19	16°50'35	4♊29	18°34	28°19	7° 6	17°41	16°15	10°24	3°16	20° 6	27°16	25°46	10°47	12°40	T 9
F 10	21 16 16	17°48'13	18°47	20°34	29°33	7°30	17°51	16°22	10°25	3°14	20° 8	27°17	25°43	10°54	12°40	F 10
S 11	21 20 12	18°45'52	3♊11	22°33	0♊47	7°55	18° 0	16°29	10°25	3°13	20° 9	27°R17	25°40	11° 0	12°40	S 11
S 12	21 24 9	19°43'32	17°36	24°30	2° 1	8°20	18° 9	16°36	10°25	3°11	20°11	27°15	25°37	11° 7	12°41	S 12
M13	21 28 6	20°41'14	1♊59	26°26	3°15	8°45	18°19	16°43	10°25	3°10	20°12	27°11	25°33	11°14	12°41	M13
T 14	21 32 2	21°38'56	16°13	28°21	4°29	9°11	18°28	16°50	10°25	3° 8	20°14	27° 5	25°30	11°20	12°41	T 14
W15	21 35 59	22°36'40	0♊14	0♊14	5°43	9°37	18°38	16°57	10°R25	3° 6	20°15	26°57	25°27	11°27	12°41	W15
T 16	21 39 55	23°34'25	13°58	2° 6	6°57	10° 4	18°48	17° 4	10°25	3° 5	20°16	26°48	25°24	11°34	12°41	T 16
F 17	21 43 52	24°32'12	27°20	3°57	8°11	10°31	18°57	17°11	10°25	3° 3	20°18	26°38	25°21	11°40	12°R41	F 17
S 18	21 47 48	25°30'00	10°V21	5°47	9°25	10°59	19° 7	17°18	10°25	3° 2	20°19	26°30	25°17	11°47	12°41	S 18
S 19	21 51 45	26°27'50	23° 0	7°34	10°39	11°27	19°17	17°25	10°25	3° 0	20°21	26°23	25°14	11°53	12°41	S 19
M20	21 55 41	27°25'42	5♊20	9°21	11°53	11°55	19°27	17°32	10°25	2°58	20°22	26°18	25°11	12° 0	12°41	M20
T 21	21 59 38	28°23'35	17°25	11° 6	13° 7	12°24	19°38	17°40	10°25	2°57	20°23	26°16	25° 8	12° 7	12°41	T 21
W22	22 3 35	29°21'30	29°19	12°50	14°21	12°53	19°48	17°47	10°24	2°55	20°24	26°D15	25° 5	12°13	12°41	W22
T 23	22 7 31	0♊19'28	11♊ 8	14°33	15°35	13°22	19°58	17°54	10°24	2°53	20°26	26°16	25° 2	12°20	12°40	T 23
F 24	22 11 28	1°17'27	22°57	16°14	16°49	13°52	20° 9	18° 1	10°23	2°52	20°27	26°R16	24°58	12°27	12°40	F 24
S 25	22 15 24	2°15'28	4♊52	17°54	18° 3	14°22	20°19	18° 9	10°23	2°50	20°28	26°16	24°55	12°33	12°39	S 25
S 26	22 19 21	3°13'30	16°56	19°33	19°18	14°53	20°30	18°16	10°23	2°48	20°30	26°14	24°52	12°40	12°39	S 26
M27	22 23 17	4°11'35	29°15	21°11	20°32	15°24	20°41	18°23	10°22	2°47	20°31	26° 9	24°49	12°47	12°38	M27
T 28	22 27 14	5° 9'42	11♊50	22°47	21°46	15°55	20°52	18°31	10°21	2°45	20°32	26° 2	24°46	12°53	12°38	T 28
W29	22 31 10	6° 7'50	24°44	24°22	23° 0	16°27	21° 2	18°38	10°21	2°44	20°33	25°53	24°43	13° 0	12°37	W29
T 30	22 35 7	7° 6'00	7♊56	25°56	24°14	16°58	21°13	18°45	10°20	2°42	20°34	25°42	24°39	13° 7	12°36	T 30
F 31	22 39 4	8♊4'12	21♊25	27♊28	25♊28	17♊31	21♊24	18♊53	10♊19	2°40	20°36	25°I30	24°I36	13°I13	12°R35	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n 0	19n45	3n51	21n 3	1n22	16n39	1n24	24s22	3s24	5s25	1n11	7n35	1n57	14n32	0s27	10s58
T 2	17 44	16 8	4 31	20 40	1 28	16 17	1 25	24 25	3 24	5 29	1 11	7 32	1 57	14 32	0 27	10 58
F 3	17 29	11 42	4 57	20 14	1 33	15 54	1 25	24 28	3 23	5 32	1 10	7 30	1 57	14 32	0 27	10 59
S 4	17 13	6 38	5 8	19 46	1 37	15 30	1 26	24 32	3 23	5 35	1 10	7 27	1 57	14 32	0 27	11 0
S 5	16 56	1 11	5 3	19 16	1 40	15 6	1 26	24 35	3 22	5 39	1 10	7 25	1 57	14 32	0 27	11 0
M 6	16 40	4s24	4 40	18 44	1 43	14 42	1 26	24 39	3 22	5 43	1 10	7 22	1 57	14 32	0 27	11 1
T 7	16 23	9 51	4 0	18 10	1 45	14 17	1 27	24 42	3 21	5 46	1 10	7 19	1 57	14 33	0 27	11 1
W 8	16 6	14 52	3 6	17 35	1 46	13 52	1 27	24 46	3 21	5 50	1 9	7 16	1 57	14 33	0 27	11 2
T 9	15 49	19 7	2 0	16 58	1 46	13 26	1 27	24 50	3 20	5 53	1 9	7 14	1 57	14 33	0 27	11 2
F 10	15 31	22 15	0 46	16 20	1 46	13 1	1 27	24 53	3 20	5 57	1 9	7 11	1 57	14 33	0 27	11 3
S 11	15 14	23 58	0s32	15 40	1 45	12 34	1 27	24 57	3 19	6 1	1 9	7 8	1 57	14 33	0 27	11 4
S 12	14 56	24 5	1 47	15 0	1 43	12 8	1 27	25 0	3 19	6 4	1 9	7 6	1 57	14 33	0 27	11 4
M13	14 37	22 36	2 55	14 18	1 41	11 41	1 27	25 4	3 18	6 8	1 8	7 3	1 57	14 33	0 27	11 5
T 14	14 19	19 41	3 52	13 36	1 38	11 14	1 27	25 7	3 18	6 12	1 8	7 0	1 57	14 33	0 27	11 5
W15	14 0	15 40	4 33	12 53	1 35	10 46	1 26	25 11	3 17	6 16	1 8	6 57	1 57	14 33	0 27	11 6
T 16	13 41	10 53	4 58	12 10	1 31	10 18	1 26	25 14	3 16	6 20	1 8	6 54	1 57	14 33	0 27	11 7
F 17	13 22	5 43	5 5	11 26	1 27	9 50	1 26	25 17	3 16	6 24	1 8	6 52	1 57	14 33	0 27	11 7
S 18	13 3	0 26	4 56	10 42	1 23	9 22	1 25	25 21	3 15	6 28	1 8	6 49	1 57	14 33	0 27	11 8
S 19	12 43	4n44	4 33	9 57	1 18	8 53	1 25	25 24	3 14	6 31	1 7	6 46	1 57	14 33	0 27	11 8
M20	12 23	9 35	3 58	9 12	1 13	8 25	1 24	25 27	3 14	6 35	1 7	6 43	1 57	14 33	0 27	11 9
T 21	12 3	13 59	3 12	8 27	1 7	7 56	1 23	25 30	3 13	6 39	1 7	6 40	1 57	14 33	0 27	11 10
W22	11 43	17 47	2 19	7 42	1 1	7 26	1 23	25 33	3 12	6 44	1 7	6 38	1 57	14 33	0 27	11 10
T 23	11 23	20 50	1 20	6 57	0 55	6 57	1 22	25 36	3 11	6 48	1 7	6 35	1 57	14 32	0 27	11 11
F 24	11 2	23 0	0 18	6 11	0 49	6 27	1 21	25 39	3 11	6 52	1 7	6 32	1 57	14 32	0 27	11 11
S 25	10 41	24 9	0n46	5 26	0 42	5 57	1 20	25 42	3 10	6 56	1 6	6 29	1 57	14 32	0 27	11 12
S 26	10 20	24 11	1 48	4 41	0 36	5 27	1 19	25 45	3 9	7 0	1 6	6 26	1 57	14 32	0 27	11 13
M27	9 59	23 3	2 46	3 56	0 28	4 57	1 18	25 48	3 8	7 4	1 6	6 23	1 57	14 32	0 27	11 13
T 28	9 38	20 45	3 37	3 12	0 21	4 27	1 17	25 50	3 7	7 8	1 6	6 20	1 57	14 32	0 27	11 14
W29	9 17	17 22	4 19	2 27	0 14	3 57	1 16	25 53	3 7	7 13	1 6	6 17	1 57	14 31	0 27	11 14
T 30	8 55	13 3	4 47	1 43	0 6	3 26	1 14	25 55	3 6	7 17	1 6	6 15	1 57	14 31	0 27	11 15
F 31	8n33	8n 1	5n 1	0n59	0s 1	2n55	1n13	25s58	3s 5	7s21	1n 5	6n12	1n57	14n31	0s27	11s16

Julian Day Number = 2336706.5, Delta T = 20.61 sec
Ecliptic obliquity = 23°28'49", Nutation = - 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'05", Lahiri = 19°28'05"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685
geocentric

SEPTEMBER 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 43 0	9 ^h 2'25	5 ^h 9	29 ^h 0	26 ^h 42	18 ^h 3	21 ^h 35	19 ^h 0	10 ^h R18	2 ^h R39	20 ^h 37	25 ^h R19	24 ^h II33	13 ^h II20	12 ^h R34	S 1
S 2	22 46 57	10° 0'40	19° 3	0 ^h 30	27° 56	18° 36	21° 47	19° 8	10 ^h R18	2 ^h 37	20° 38	25 ^h II 9	24° 30	13° 27	12 ^h R33	S 2
M 3	22 50 53	10° 58'56	3 ^h 4	1° 59	29° 10	19° 9	21° 58	19° 15	10° 17	2° 35	20° 39	25° 2	24° 27	13° 33	12° 32	M 3
T 4	22 54 50	11° 57'15	17° 9	3° 27	0 ^h 24	19° 43	22° 9	19° 22	10° 16	2° 34	20° 40	24° 58	24° 23	13° 40	12° 31	T 4
W 5	22 58 46	12° 55'34	1 ^h 16	4° 53	1° 38	20° 16	22° 21	19° 30	10° 15	2° 32	20° 41	24° 56	24° 20	13° 46	12° 30	W 5
T 6	23 2 43	13° 53'56	15° 23	6° 18	2° 52	20° 50	22° 32	19° 37	10° 14	2° 31	20° 42	24° D56	24° 17	13° 53	12° 29	T 6
F 7	23 6 39	14° 52'19	29° 30	7° 42	4° 6	21° 24	22° 44	19° 45	10° 13	2° 29	20° 43	24° R56	24° 14	14° 0	12° 28	F 7
S 8	23 10 36	15° 50'43	13 ^h 34	9° 5	5° 20	21° 59	22° 55	19° 52	10° 12	2° 27	20° 44	24° 55	24° 11	14° 6	12° 27	S 8
S 9	23 14 33	16° 49'09	27° 36	10° 26	6° 34	22° 34	23° 7	20° 0	10° 10	2° 26	20° 45	24° 52	24° 8	14° 13	12° 25	S 9
M10	23 18 29	17° 47'37	11 ^h 33	11° 46	7° 48	23° 9	23° 18	20° 7	10° 9	2° 24	20° 46	24° 46	24° 4	14° 20	12° 24	M10
T 11	23 22 26	18° 46'07	25° 22	13° 4	9° 2	23° 44	23° 30	20° 15	10° 8	2° 23	20° 47	24° 38	24° 1	14° 26	12° 22	T 11
W12	23 26 22	19° 44'38	9 ^h 1	14° 21	10° 16	24° 20	23° 42	20° 22	10° 7	2° 21	20° 48	24° 26	23° 58	14° 33	12° 21	W12
T 13	23 30 19	20° 43'11	22° 26	15° 36	11° 30	24° 55	23° 54	20° 30	10° 5	2° 19	20° 49	24° 14	23° 55	14° 40	12° 19	T 13
F 14	23 34 15	21° 41'46	5 ^h 34	16° 50	12° 44	25° 31	24° 6	20° 37	10° 4	2° 18	20° 50	24° 1	23° 52	14° 46	12° 18	F 14
S 15	23 38 12	22° 40'23	18° 25	18° 2	13° 58	26° 8	24° 18	20° 45	10° 3	2° 16	20° 51	23° 49	23° 49	14° 53	12° 16	S 15
S 16	23 42 8	23° 39'02	0 ^h 58	19° 12	15° 12	26° 44	24° 30	20° 52	10° 1	2° 15	20° 52	23° 39	23° 45	15° 0	12° 14	S 16
M17	23 46 5	24° 37'43	13° 15	20° 21	16° 26	27° 21	24° 42	21° 0	10° 0	2° 13	20° 53	23° 32	23° 42	15° 6	12° 13	M17
T 18	23 50 1	25° 36'26	25° 18	21° 27	17° 40	27° 57	24° 54	21° 7	9° 58	2° 12	20° 53	23° 27	23° 39	15° 13	12° 11	T 18
W19	23 53 58	26° 35'12	7 ^h 11	22° 31	18° 54	28° 35	25° 6	21° 15	9° 56	2° 10	20° 54	23° 25	23° 36	15° 20	12° 9	W19
T 20	23 57 55	27° 34'00	18° 59	23° 33	20° 8	29° 12	25° 19	21° 22	9° 55	2° 9	20° 55	23° 24	23° 33	15° 26	12° 7	T 20
F 21	0 1 51	28° 32'50	0 ^h 48	24° 33	21° 22	29° 49	25° 31	21° 30	9° 53	2° 8	20° 56	23° 24	23° 29	15° 33	12° 5	F 21
S 22	0 5 48	29° 31'43	12° 43	25° 30	22° 36	0 ^h 27	25° 43	21° 37	9° 52	2° 6	20° 57	23° 24	23° 26	15° 39	12° 3	S 22
S 23	0 9 44	0 ^h 30'38	24° 49	26° 24	23° 50	1° 5	25° 56	21° 45	9° 50	2° 5	20° 57	23° 22	23° 23	15° 46	12° 1	S 23
M24	0 13 41	1° 29'35	7 ^h 11	27° 15	25° 4	1° 43	26° 8	21° 52	9° 48	2° 3	20° 58	23° 17	23° 20	15° 53	11° 59	M24
T 25	0 17 37	2° 28'34	19° 53	28° 2	26° 18	2° 21	26° 20	21° 59	9° 46	2° 2	20° 59	23° 10	23° 17	15° 59	11° 57	T 25
W26	0 21 34	3° 27'36	2 ^h 59	28° 46	27° 31	3° 0	26° 33	22° 7	9° 44	2° 1	20° 59	23° 1	23° 14	16° 6	11° 54	W26
T 27	0 25 30	4° 26'40	16° 27	29° 26	28° 45	3° 38	26° 45	22° 14	9° 43	1° 59	21° 0	22° 50	23° 10	16° 13	11° 52	T 27
F 28	0 29 27	5° 25'45	0 ^h 17	0 ^h 2	29° 59	4° 17	26° 58	22° 22	9° 41	1° 58	21° 0	22° 38	23° 7	16° 19	11° 50	F 28
S 29	0 33 24	6° 24'53	14° 25	0° 33	1 ^h 13	4° 56	27° 11	22° 29	9° 39	1° 57	21° 1	22° 26	23° 4	16° 26	11° 47	S 29
S 30	0 37 20	7 ^h 24'03	28 ^h 46	0 ^h 58	2 ^h 27	5 ^h 35	27 ^h 23	22 ^h 36	9 ^h 37	1 ^h 55	21 ^h 2	22 ^h 16	23 ^h 1	16 ^h 33	11 ^h 45	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	8n12	2n30	4n57	0n16	0s 9	2n25	1n12	26s 0	3s 4	7s25	1n 5	6n 9	1n57	14n31	0s27	11s16	0s46	22n56	1n 3	23n24	23n22	21n27	14n 7	1s36			
S 2	7 50	3s13	4 36	0s27	0 17	1 54	1 10	26 2	3 3	7 30	1 5	6 6	1 57	14 30	0 27	11 17	0 46	22 56	1 3	23 24	23 22	21 28	14 7	1 36			
M 3	7 28	8 49	3 58	1 10	0 25	1 23	1 9	26 4	3 2	7 34	1 5	6 3	1 57	14 30	0 27	11 17	0 46	22 56	1 3	23 23	23 22	21 30	14 6	1 36			
T 4	7 5	14 1	3 6	1 52	0 33	0 52	1 7	26 6	3 1	7 38	1 5	6 0	1 57	14 30	0 27	11 18	0 46	22 56	1 4	23 23	23 22	21 32	14 6	1 36			
W 5	6 43	18 28	2 2	2 34	0 41	0 21	1 6	26 7	3 0	7 43	1 5	5 57	1 57	14 29	0 27	11 19	0 46	22 56	1 4	23 23	23 22	21 33	14 5	1 36			
T 6	6 21	21 51	0 50	3 16	0 49	0s10	1 4	26 9	3 0	7 47	1 5	5 54	1 57	14 29	0 27	11 19	0 46	22 56	1 4	23 23	23 21	21 35	14 5	1 37			
F 7	5 58	23 53	0s24	3 56	0 57	0 41	1 2	26 10	2 59	7 51	1 4	5 51	1 57	14 29	0 27	11 20	0 46	22 56	1 4	23 23	23 21	21 37	14 4	1 37			
S 8	5 35	24 24	1 37	4 36	1 5	1 12	1 1	26 12	2 58	7 56	1 4	5 48	1 57	14 28	0 27	11 20	0 46	22 56	1 4	23 23	23 21	21 38	14 3	1 37			
S 9	5 13	23 21	2 44	5 16	1 14	1 43	0 59	26 13	2 57	8 0	1 4	5 45	1 57	14 28	0 27	11 21	0 46	22 56	1 4	23 23	23 21	21 40	14 3	1 37			
M10	4 50	20 52	3 40	5 55	1 22	2 14	0 57	26 14	2 56	8 5	1 4	5 43	1 57	14 28	0 27	11 22	0 46	22 56	1 4	23 23	23 21	21 41	14 2	1 37			
T 11	4 27	17 12	4 23	6 33	1 30	2 45	0 55	26 15	2 55	8 9	1 4	5 40	1 57	14 27	0 27	11 22	0 46	22 56	1 4	23 22	23 21	21 43	14 2	1 38			
W12	4 4	12 40	4 50	7 10	1 38	3 16	0 53	26 15	2 54	8 14	1 4	5 37	1 57	14 27	0 27	11 23	0 46	22 56	1 4	23 22	23 21	21 45	14 1	1 38			
T 13	3 41	7 36	5 0	7 47	1 46	3 47	0 51	26 16	2 53	8 18	1 4	5 34	1 57	14 26	0 27	11 23	0 46	22 55	1 4	23 21	23 20	21 46	14 0	1 38			
F 14	3 18	2 17	4 54	8 23	1 54	4 17	0 49	26 16	2 52	8 23	1 4	5 31	1 57	14 26	0 27	11 24	0 46	22 55	1 4	23 21	23 20	21 48	14 0	1 38			
S 15	2 55	3n 1	4 34	8 58	2 2	4 48	0 47	26 16	2 51	8 27	1 3	5 28	1 57	14 25	0 27	11 24	0 46	22 55	1 5	23 20	23 20	21 50	13 59	1 38			
S 16	2 32	8 5	4 0	9 32	2 9	5 19	0 44	26 16	2 50	8 32	1 3	5 25	1 57	14 25	0 27	11 25	0 46	22 55	1 5	23 20	23 20	21 51	13 58	1 38			
M17	2 8	12 44	3 15	10 5	2 17	5 49	0 42	26 16	2 49	8 36	1 3	5 22	1 57	14 24	0 27	11 25	0 46	22 55	1 5	23 19	23 20	21 53	13 58	1 39			
T 18	1 45	16 48	2 23	10 37	2 24	6 20	0 40	26 16	2 48	8 41	1 3	5 19	1 57	14 24	0 27	11 26	0 46	22 55	1 5	23 19	23 20	21 54	13 57	1 39			
W19	1 22	20 9	1 25	11 7	2 32	6 50	0 38	26 15	2 47	8 45	1 3	5 16	1 57	14 23	0 27	11 26	0 46	22 55	1 5	23 19	23 20	21 56	13 56	1 39			
T 20	0 58	22 38	0 23	11 37	2 39	7 20	0 35	26 14	2 46	8 50	1 3	5 13	1 57	14 23	0 27	11 27	0 46	22 55	1 5	23 19	23 19	21 58	13 55	1 39			
F 21	0 35	24 8	0n39	12 5	2 45	7 50	0 33	26 14	2 45	8 54	1 3	5 11	1 57	14 22	0 27	11 28	0 46	22 55	1 5	23 19	23 19	21 59	13 55	1 39			
S 22	0 11	24 32	1 41	12 32	2 52	8 20	0 31	26 12	2 44	8 59	1 3	5 8	1 57	14 22	0 27	11 28	0 46	22 55	1 5	23 19	23 19	22 1	13 54	1 39			
S 23	0s12	23 48	2 38	12 58	2 58	8 50	0 28	26 11	2 43	9 4	1 3	5 5	1 58	14 21	0 27	11 29	0 46	22 55	1 5	23 19	23 19	22 2	13 53	1 40			
M24	0 36	21 53	3 30	13 22	3 4	9 19	0 26	26 10	2 42	9 8	1 2	5 2	1 58	14 21	0 27	11 29	0 46	22 55	1 5	23 19	23 19	22 4	13 52	1 40			
T 25	0 59	18 52	4 12	13 44	3 9	9 48	0 23	26 8	2 40	9 13	1 2	4 59	1 58	14 20	0 27	11 29	0 46	22 55	1 5	23 18	23 19	22 5	13 52	1 40			
W26	1 23	14 50	4 43	14 5	3 14	10 18	0 20	26 6	2 39	9 17	1 2	4 56	1 58	14 20	0 27	11 30	0 46	22 55	1 5	23 18	23 18	22 7	13 51	1 40			
T 27	1 46	9 57	4 59	14 23	3 18	10 46	0 18	26 4	2 38	9 22	1 2	4 53	1 58	14 19	0 27	11 30	0 46	22 55	1 6	23 17	23 18	22 9	13 50	1 40			
F 28	2 10	4 27	4 59	14 39	3 22	11 15	0 15	26 2	2 37	9 27	1 2	4 51	1 58	14 18	0 27	11 31	0 46	22 55	1 6	23 17	23 18	22 10	13 49	1 40			
S 29	2 33	1s24	4 40	14 53	3 25	11 43	0 13	25 59	2 36	9 31	1 2	4 48	1 58	14 18	0 27	11 31	0 46	22 55	1 6	23 16	23 18	22 12	13 48	1 41			
S 30	2s57	7s16	4n 3	15s 5	3s28	12s11	0n10	25s57	2s35	9s36	1n 2	4n45	1n58	14n17	0s27	11s32	0s46	22n55	1n 6	23n15	23n18	22n13	13n47	1s41			

ASTRODIENST EPHEMERIS for the year 1685

geocentric

OCTOBER 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 41 17	8♂23'15	13♂13	1♂19	3♂41	6♂14	27♂36	22♂44	9♂R35	1♂R54	21♂2	22♂R 9	22♂II58	16♂II39	11♂R43	M 1
T 2	0 45 13	9°22'29	27°40	1°33	4°55	6°54	27°49	22°51	9♂R33	1♂R53	21° 3	22♂II 4	22°54	16°46	11♂R40	T 2
W 3	0 49 10	10°21'45	12♂14	1°41	6° 9	7°34	28° 1	22°58	9°31	1°52	21° 3	22° 2	22°51	16°53	11°38	W 3
T 4	0 53 6	11°21'03	26°19	1°R42	7°22	8°13	28°14	23° 5	9°29	1°50	21° 4	22°D 2	22°48	16°59	11°35	T 4
F 5	0 57 3	12°20'22	10♂26	1°35	8°36	8°53	28°27	23°13	9°26	1°49	21° 4	22°R 2	22°45	17° 6	11°32	F 5
S 6	1 0 59	13°19'43	24°22	1°20	9°50	9°33	28°40	23°20	9°24	1°48	21° 4	22° 2	22°42	17°13	11°30	S 6
S 7	1 4 56	14°19'06	8♂ 8	0°58	11° 4	10°14	28°53	23°27	9°22	1°47	21° 5	21°59	22°39	17°19	11°27	S 7
M 8	1 8 53	15°18'31	21°44	0°27	12°18	10°54	29° 6	23°34	9°20	1°46	21° 5	21°54	22°35	17°26	11°25	M 8
T 9	1 12 49	16°17'57	5♂10	29♂48	13°31	11°34	29°19	23°41	9°18	1°45	21° 5	21°47	22°32	17°32	11°22	T 9
W10	1 16 46	17°17'25	18°24	29° 0	14°45	12°15	29°32	23°48	9°15	1°44	21° 6	21°37	22°29	17°39	11°19	W10
T 11	1 20 42	18°16'55	1°V26	28° 5	15°59	12°56	29°45	23°55	9°13	1°43	21° 6	21°26	22°26	17°46	11°16	T 11
F 12	1 24 39	19°16'27	14°15	27° 3	17°13	13°37	29°57	24° 2	9°11	1°42	21° 6	21°15	22°23	17°52	11°13	F 12
S 13	1 28 35	20°16'01	26°51	25°55	18°26	14°18	0♂10	24° 9	9° 9	1°41	21° 6	21° 4	22°20	17°59	11°11	S 13
S 14	1 32 32	21°15'37	9♂13	24°43	19°40	14°59	0°23	24°16	9° 6	1°40	21° 7	20°55	22°16	18° 6	11° 8	S 14
M15	1 36 28	22°15'15	21°22	23°29	20°54	15°40	0°37	24°23	9° 4	1°39	21° 7	20°49	22°13	18°12	11° 5	M15
T 16	1 40 25	23°14'56	3♂20	22°14	22° 8	16°22	0°50	24°30	9° 2	1°38	21° 7	20°45	22°10	18°19	11° 2	T 16
W17	1 44 22	24°14'38	15°11	21° 2	23°21	17° 3	1° 3	24°37	8°59	1°37	21° 7	20°D43	22° 7	18°26	10°59	W17
T 18	1 48 18	25°14'23	26°58	19°53	24°35	17°45	1°16	24°44	8°57	1°37	21° 7	20°43	22° 4	18°32	10°56	T 18
F 19	1 52 15	26°14'10	8♂46	18°51	25°48	18°26	1°29	24°51	8°54	1°36	21° 7	20°44	22° 0	18°39	10°53	F 19
S 20	1 56 11	27°14'00	20°39	17°57	27° 2	19° 8	1°42	24°58	8°52	1°35	21° 7	20°45	21°57	18°46	10°50	S 20
S 21	2 0 8	28°13'51	2♂43	17°12	28°16	19°50	1°55	25° 4	8°50	1°34	21° 7	20°R45	21°54	18°52	10°47	S 21
M22	2 4 4	29°13'45	15° 4	16°38	29°29	20°32	2° 8	25°11	8°47	1°34	21°R 7	20°43	21°51	18°59	10°44	M22
T 23	2 8 1	0♂13'41	27°46	16°15	0♂43	21°14	2°21	25°17	8°45	1°33	21° 7	20°40	21°48	19° 5	10°41	T 23
W24	2 11 57	1°13'39	10♂53	16° 3	1°56	21°56	2°34	25°24	8°42	1°32	21° 7	20°34	21°45	19°12	10°38	W24
T 25	2 15 54	2°13'39	24°26	16°D 3	3°10	22°39	2°48	25°31	8°40	1°32	21° 7	20°27	21°41	19°19	10°35	T 25
F 26	2 19 51	3°13'42	8♂26	16°14	4°24	23°21	3° 1	25°37	8°37	1°31	21° 7	20°19	21°38	19°25	10°32	F 26
S 27	2 23 47	4°13'46	22°50	16°36	5°37	24° 3	3°14	25°44	8°35	1°30	21° 7	20°12	21°35	19°32	10°29	S 27
S 28	2 27 44	5°13'53	7♂13	17° 7	6°51	24°46	3°27	25°50	8°32	1°30	21° 7	20° 5	21°32	19°39	10°26	S 28
M29	2 31 40	6°14'01	22°22	17°47	8° 4	25°29	3°40	25°56	8°30	1°29	21° 7	20° 0	21°29	19°45	10°23	M29
T 30	2 35 37	7°14'11	7♂15	18°35	9°18	26°12	3°53	26° 2	8°27	1°29	21° 7	19°58	21°26	19°52	10°19	T 30
W31	2 39 33	8♂14'23	22♂ 2	19♂30	10♂31	26♂54	4♂ 6	26♂ 9	8♂25	1♂R29	21♂ 6	19°D57	21♂II22	19♂II59	10♂R16	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	3s20	12s48	3n10	15s13	3s29	12s39	0n 7	25s54	2s34	9s41	1n 2	4n42	1n58	14n17	0s27	11s32
T 2	3 43	17 38	2 5	15 19	3 30	13 7	0 4	25 51	2 33	9 45	1 2	4 39	1 58	14 16	0 27	11 33
W 3	4 7	21 24	0 53	15 21	3 30	13 34	0 2	25 47	2 32	9 50	1 2	4 36	1 58	14 15	0 27	11 33
T 4	4 30	23 49	0s23	15 20	3 28	14 1	0s 1	25 44	2 31	9 54	1 2	4 34	1 58	14 15	0 27	11 34
F 5	4 53	24 40	1 36	15 15	3 26	14 27	0 4	25 40	2 29	9 59	1 2	4 31	1 59	14 14	0 27	11 34
S 6	5 16	23 57	2 43	15 6	3 21	14 54	0 7	25 36	2 28	10 4	1 1	4 28	1 59	14 13	0 27	11 34
S 7	5 39	21 48	3 39	14 53	3 16	15 19	0 10	25 32	2 27	10 8	1 1	4 25	1 59	14 12	0 27	11 35
M 8	6 2	18 25	4 23	14 35	3 8	15 45	0 12	25 27	2 26	10 13	1 1	4 23	1 59	14 12	0 27	11 35
T 9	6 25	14 8	4 51	14 13	2 59	16 10	0 15	25 23	2 25	10 18	1 1	4 20	1 59	14 11	0 27	11 36
W10	6 48	9 14	5 3	13 45	2 48	16 35	0 18	25 18	2 24	10 22	1 1	4 17	1 59	14 10	0 27	11 36
T 11	7 11	4 0	4 59	13 14	2 35	16 59	0 21	25 13	2 23	10 27	1 1	4 14	1 59	14 10	0 27	11 36
F 12	7 33	1n20	4 40	12 38	2 21	17 23	0 24	25 8	2 21	10 31	1 1	4 12	1 59	14 9	0 27	11 37
S 13	7 56	6 32	4 7	11 58	2 5	17 46	0 27	25 2	2 20	10 36	1 1	4 9	2 0	14 8	0 27	11 37
S 14	8 18	11 23	3 23	11 15	1 47	18 9	0 29	24 56	2 19	10 41	1 1	4 7	2 0	14 7	0 27	11 37
M15	8 41	15 43	2 31	10 30	1 28	18 32	0 32	24 50	2 18	10 45	1 1	4 4	2 0	14 7	0 27	11 38
T 16	9 3	19 21	1 32	9 43	1 8	18 54	0 35	24 44	2 17	10 50	1 1	4 1	2 0	14 6	0 27	11 38
W17	9 25	22 10	0 30	8 57	0 47	19 15	0 38	24 38	2 16	10 55	1 1	3 59	2 0	14 5	0 27	11 38
T 18	9 47	24 0	0n34	8 12	0 26	19 36	0 41	24 31	2 14	10 59	1 1	3 56	2 0	14 4	0 27	11 38
F 19	10 9	24 47	1 36	7 29	0 6	19 57	0 44	24 24	2 13	11 4	1 1	3 54	2 0	14 4	0 27	11 39
S 20	10 30	24 26	2 34	6 50	0n14	20 17	0 46	24 17	2 12	11 8	1 1	3 51	2 0	14 3	0 27	11 39
S 21	10 52	22 56	3 27	6 16	0 33	20 36	0 49	24 10	2 11	11 13	1 1	3 48	2 1	14 2	0 27	11 39
M22	11 13	20 20	4 11	5 47	0 50	20 55	0 52	24 3	2 10	11 17	1 0	3 46	2 1	14 1	0 27	11 39
T 23	11 34	16 42	4 44	5 23	1 6	21 14	0 55	23 55	2 8	11 22	1 0	3 43	2 1	14 1	0 27	11 40
W24	11 55	12 11	5 4	5 6	1 20	21 32	0 58	23 47	2 7	11 26	1 0	3 41	2 1	14 0	0 27	11 40
T 25	12 16	6 55	5 7	4 55	1 32	21 49	1 0	23 39	2 6	11 31	1 0	3 39	2 1	13 59	0 27	11 40
F 26	12 37	1 8	4 53	4 49	1 43	22 5	1 3	23 30	2 5	11 36	1 0	3 36	2 1	13 58	0 27	11 40
S 27	12 57	4s52	4 20	4 49	1 52	22 21	1 6	23 22	2 4	11 40	1 0	3 34	2 2	13 57	0 27	11 41
S 28	13 17	10 44	3 29	4 54	1 59	22 37	1 8	23 13	2 2	11 45	1 0	3 31	2 2	13 57	0 27	11 41
M29	13 37	16 4	2 24	5 4	2 5	22 51	1 11	23 4	2 1	11 49	1 0	3 29	2 2	13 56	0 27	11 41
T 30	13 57	20 26	1 8	5 19	2 9	23 6	1 14	22 55	2 0	11 53	1 0	3 27	2 2	13 55	0 27	11 41
W31	14s17	23s26	0s11	5s37	2n12	23s19	1s16	22s45	1s59	11s58	1n 0	3n24	2n 2	13n54	0s27	11s41

Julian Day Number = 2336767.5, Delta T = 20.52 sec

Ecliptic obliquity = 23°28'50, Nutation = - 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°21'13, Lahiri = 19°28'14Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685

geocentric

NOVEMBER 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 43 30	9♉14'36	6♊37	20♈31	11♌45	27♊37	4♉20	26♐15	8♏R22	1♏R28	21♏R 6	19♏II58	21♏II19	20♏II 5	10♏R13	T 1
F 2	2 47 26	10°14'51	20°56	21°38	12°58	28°20	4°33	26°21	8♏20	1♏28	21♏6	19°59	21°16	20°12	10♏10	F 2
S 3	2 51 23	11°15'08	4♉58	22°50	14°11	29° 3	4°46	26°27	8°17	1°27	21° 5	20°R 0	21°13	20°19	10° 7	S 3
S 4	2 55 20	12°15'25	18°41	24° 5	15°25	29°47	4°59	26°33	8°15	1°27	21° 5	20° 0	21°10	20°25	10° 4	S 4
M 5	2 59 16	13°15'44	2♊ 7	25°24	16°38	0♈30	5°12	26°39	8°13	1°27	21° 5	19°59	21° 6	20°32	10° 1	M 5
T 6	3 3 13	14°16'05	15°17	26°46	17°51	1°13	5°25	26°45	8°10	1°27	21° 4	19°55	21° 3	20°38	9°58	T 6
W 7	3 7 9	15°16'27	28°12	28°11	19° 5	1°56	5°38	26°51	8° 8	1°27	21° 4	19°50	21° 0	20°45	9°54	W 7
T 8	3 11 6	16°16'50	10♏54	29°37	20°18	2°40	5°51	26°56	8° 5	1°26	21° 4	19°45	20°57	20°52	9°51	T 8
F 9	3 15 2	17°17'15	23°23	1♉ 5	21°31	3°23	6° 4	27° 2	8° 3	1°26	21° 3	19°39	20°54	20°58	9°48	F 9
S 10	3 18 59	18°17'42	5♊42	2°35	22°45	4° 7	6°17	27° 8	8° 0	1°26	21° 3	19°33	20°51	21° 5	9°45	S 10
S 11	3 22 55	19°18'10	17°50	4° 5	23°58	4°50	6°30	27°13	7°58	1°26	21° 2	19°29	20°47	21°12	9°42	S 11
M12	3 26 52	20°18'40	29°50	5°37	25°11	5°34	6°43	27°19	7°55	1°D26	21° 2	19°25	20°44	21°18	9°39	M12
T 13	3 30 49	21°19'11	11♏43	7° 9	26°24	6°18	6°56	27°24	7°53	1°26	21° 1	19°24	20°41	21°25	9°36	T 13
W14	3 34 45	22°19'44	23°32	8°42	27°37	7° 1	7° 9	27°30	7°51	1°26	21° 1	19°D23	20°38	21°32	9°33	W14
T 15	3 38 42	23°20'19	5♊18	10°16	28°50	7°45	7°22	27°35	7°48	1°26	21° 0	19°24	20°35	21°38	9°30	T 15
F 16	3 42 38	24°20'55	17° 6	11°49	0♊ 3	8°29	7°35	27°40	7°46	1°26	20°59	19°26	20°31	21°45	9°27	F 16
S 17	3 46 35	25°21'33	28°59	13°23	1°16	9°13	7°48	27°45	7°44	1°26	20°59	19°28	20°28	21°52	9°24	S 17
S 18	3 50 31	26°22'13	11♏ 3	14°58	2°29	9°57	8° 1	27°50	7°41	1°27	20°58	19°29	20°25	21°58	9°21	S 18
M19	3 54 28	27°22'54	23°21	16°32	3°42	10°41	8°13	27°55	7°39	1°27	20°57	19°R30	20°22	22° 5	9°18	M19
T 20	3 58 24	28°23'37	5♐58	18° 6	4°55	11°25	8°26	28° 0	7°37	1°27	20°57	19°30	20°19	22°12	9°15	T 20
W21	4 2 21	29°24'21	18°59	19°41	6° 8	12° 9	8°39	28° 5	7°34	1°27	20°56	19°29	20°16	22°18	9°12	W21
T 22	4 6 18	0♊25'07	2♉26	21°15	7°21	12°53	8°52	28°10	7°32	1°28	20°55	19°27	20°12	22°25	9° 9	T 22
F 23	4 10 14	1°25'55	16°22	22°50	8°34	13°37	9° 4	28°14	7°30	1°28	20°55	19°25	20° 9	22°31	9° 6	F 23
S 24	4 14 11	2°26'44	0♉44	24°24	9°46	14°21	9°17	28°19	7°28	1°28	20°54	19°22	20° 6	22°38	9° 4	S 24
S 25	4 18 7	3°27'35	15°30	25°59	10°59	15° 5	9°29	28°24	7°26	1°29	20°53	19°20	20° 3	22°45	9° 1	S 25
M26	4 22 4	4°28'27	0♊32	27°33	12°12	15°49	9°42	28°28	7°23	1°29	20°52	19°19	20° 0	22°51	8°58	M26
T 27	4 26 0	5°29'20	15°42	29° 7	13°25	16°34	9°55	28°32	7°21	1°30	20°51	19°D18	19°57	22°58	8°55	T 27
W28	4 29 57	6°30'14	0♊50	0♊42	14°37	17°18	10° 7	28°37	7°19	1°30	20°50	19°18	19°53	23° 5	8°53	W28
T 29	4 33 53	7°31'10	15°48	2°16	15°50	18° 2	10°19	28°41	7°17	1°31	20°50	19°19	19°50	23°11	8°50	T 29
F 30	4 37 50	8♊32'06	0♉27	3♊50	17♊ 2	18♈47	10♉32	28♐45	7♏15	1♏32	20♏49	19♏II20	19♏II47	23♏II18	8♏47	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s36	24s48	1s29	5s58	2n13	23s32	1s19	22s35	1s57	12s 2	1n 0	3n22	2n 2	13n53	0s27	11s41	0s46
F 2	14 55	24 29	2 41	6 23	2 14	23 44	1 21	22 26	1 56	12 7	1 0	3 20	2 3	13 53	0 27	11 41	0 46
S 3	15 14	22 37	3 41	6 50	2 13	23 55	1 24	22 15	1 55	12 11	1 0	3 17	2 3	13 52	0 27	11 41	0 46
S 4	15 32	19 28	4 26	7 19	2 12	24 6	1 26	22 5	1 54	12 16	1 0	3 15	2 3	13 51	0 27	11 42	0 46
M 5	15 51	15 21	4 57	7 50	2 10	24 16	1 28	21 55	1 53	12 20	1 0	3 13	2 3	13 50	0 27	11 42	0 46
T 6	16 9	10 35	5 11	8 22	2 7	24 26	1 31	21 44	1 51	12 24	1 0	3 11	2 3	13 50	0 27	11 42	0 46
W 7	16 27	5 26	5 8	8 55	2 4	24 34	1 33	21 33	1 50	12 29	1 0	3 9	2 4	13 49	0 27	11 42	0 46
T 8	16 44	0 8	4 51	9 30	1 59	24 42	1 35	21 22	1 49	12 33	1 0	3 7	2 4	13 48	0 27	11 42	0 46
F 9	17 1	5n 5	4 20	10 4	1 55	24 50	1 37	21 11	1 48	12 37	1 0	3 5	2 4	13 47	0 27	11 42	0 46
S 10	17 18	10 2	3 37	10 40	1 50	24 56	1 39	20 59	1 46	12 42	1 0	3 3	2 4	13 46	0 27	11 42	0 46
S 11	17 35	14 33	2 44	11 16	1 45	25 2	1 41	20 47	1 45	12 46	1 0	3 1	2 4	13 46	0 27	11 42	0 46
M12	17 51	18 26	1 45	11 52	1 39	25 7	1 43	20 36	1 44	12 50	1 0	2 59	2 5	13 45	0 27	11 42	0 46
T 13	18 7	21 32	0 42	12 27	1 33	25 11	1 45	20 23	1 43	12 54	1 0	2 57	2 5	13 44	0 27	11 42	0 46
W14	18 23	23 42	0n23	13 3	1 27	25 15	1 47	20 11	1 42	12 59	1 0	2 55	2 5	13 43	0 27	11 42	0 46
T 15	18 38	24 49	1 27	13 39	1 21	25 18	1 49	19 59	1 40	13 3	1 0	2 53	2 5	13 43	0 27	11 42	0 46
F 16	18 53	24 49	2 27	14 14	1 14	25 20	1 51	19 46	1 39	13 7	1 0	2 51	2 5	13 42	0 27	11 42	0 46
S 17	19 8	23 41	3 21	14 49	1 8	25 21	1 52	19 33	1 38	13 11	1 0	2 49	2 6	13 41	0 27	11 42	0 46
S 18	19 22	21 27	4 8	15 23	1 1	25 21	1 54	19 20	1 37	13 15	1 0	2 47	2 6	13 40	0 27	11 42	0 46
M19	19 37	18 13	4 44	15 57	0 54	25 21	1 56	19 7	1 35	13 19	1 0	2 45	2 6	13 40	0 27	11 41	0 46
T 20	19 50	14 6	5 7	16 30	0 47	25 20	1 57	18 54	1 34	13 24	1 0	2 44	2 6	13 39	0 27	11 41	0 46
W21	20 3	9 13	5 16	17 2	0 40	25 19	1 58	18 40	1 33	13 28	1 0	2 42	2 7	13 38	0 27	11 41	0 46
T 22	20 16	3 44	5 8	17 34	0 33	25 16	2 0	18 27	1 32	13 32	1 0	2 40	2 7	13 37	0 27	11 41	0 46
F 23	20 29	2s 6	4 42	18 5	0 26	25 13	2 1	18 13	1 31	13 36	1 0	2 39	2 7	13 37	0 27	11 41	0 46
S 24	20 41	8 2	3 58	18 36	0 19	25 9	2 2	17 59	1 29	13 40	1 0	2 37	2 7	13 36	0 27	11 41	0 46
S 25	20 53	13 42	2 57	19 5	0 12	25 4	2 3	17 45	1 28	13 44	1 0	2 35	2 8	13 35	0 27	11 41	0 46
M26	21 4	18 38	1 42	19 33	0 5	24 59	2 4	17 30	1 27	13 48	1 0	2 34	2 8	13 35	0 27	11 40	0 46
T 27	21 15	22 23	0 20	20 1	0s 1	24 53	2 5	17 16	1 26	13 52	1 0	2 32	2 8	13 34	0 27	11 40	0 46
W28	21 26	24 32	1s 4	20 28	0 8	24 46	2 6	17 1	1 25	13 55	1 0	2 31	2 8	13 33	0 27	11 40	0 46
T 29	21 36	24 54	2 22	20 54	0 15	24 38	2 7	16 46	1 23	13 59	1 0	2 29	2 8	13 33	0 27	11 40	0 46
F 30	21s46	23s29	3s29	21s18	0s21	24s30	2s 8	16s31	1s22	14s 3	1n 0	2n28	2n 9	13n32	0s27	11s40	0s46

Julian Day Number = 2336798.5, Delta T = 20.48 sec
 Ecliptic obliquity = 23°28'50, Nutation = - 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°21'18, Lahiri = 19°28'18Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1685
geocentric

DECEMBER 1685 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 41 47	9♂33'03	14♂45	5♂24	18♂15	19♂31	10♂44	28♂49	7°R13	1♂32	20°R48	19♂21	19♂44	23♂25	8°R45	S 1
S 2	4 45 43	10°34'00	28°37	6°58	19°27	20°15	10°57	28°53	7♂11	1°33	20♂47	19°21	19°41	23°31	8♂42	S 2
M 3	4 49 40	11°34'58	12♂5	8°32	20°40	21°0	11°9	28°57	7°9	1°34	20°46	19°R22	19°37	23°38	8°40	M 3
T 4	4 53 36	12°35'57	25°11	10°7	21°52	21°44	11°21	29°0	7°7	1°34	20°45	19°21	19°34	23°45	8°37	T 4
W 5	4 57 33	13°36'56	7♂57	11°41	23°4	22°29	11°33	29°4	7°5	1°35	20°44	19°21	19°31	23°51	8°35	W 5
T 6	5 1 29	14°37'56	20°26	13°15	24°16	23°13	11°45	29°7	7°4	1°36	20°43	19°20	19°28	23°58	8°33	T 6
F 7	5 5 26	15°38'57	2♂41	14°49	25°28	23°58	11°57	29°11	7°2	1°37	20°42	19°20	19°25	24°4	8°30	F 7
S 8	5 9 22	16°39'58	14°46	16°24	26°40	24°42	12°9	29°14	7°0	1°38	20°41	19°19	19°22	24°11	8°28	S 8
S 9	5 13 19	17°41'00	26°43	17°58	27°52	25°27	12°21	29°18	6°58	1°38	20°40	19°19	19°18	24°18	8°26	S 9
M10	5 17 16	18°42'03	8♂35	19°33	29°4	26°11	12°33	29°21	6°57	1°39	20°39	19°19	19°15	24°24	8°23	M10
T 11	5 21 12	19°43'06	20°24	21°7	0♂16	26°56	12°45	29°24	6°55	1°40	20°38	19°19	19°12	24°31	8°21	T 11
W12	5 25 9	20°44'10	2♂11	22°42	1°28	27°40	12°56	29°27	6°53	1°41	20°37	19°19	19°9	24°38	8°19	W12
T 13	5 29 5	21°45'15	14°0	24°17	2°40	28°25	13°8	29°30	6°52	1°42	20°35	19°19	19°6	24°44	8°17	T 13
F 14	5 33 2	22°46'20	25°53	25°52	3°51	29°9	13°20	29°32	6°50	1°43	20°34	19°18	19°3	24°51	8°15	F 14
S 15	5 36 58	23°47'26	7♂51	27°27	5°3	29°54	13°31	29°35	6°49	1°45	20°33	19°18	18°59	24°58	8°13	S 15
S 16	5 40 55	24°48'32	19°58	29°3	6°14	0♂39	13°43	29°38	6°47	1°46	20°32	19°17	18°56	25°4	8°11	S 16
M17	5 44 51	25°49'40	2♂18	0♂39	7°25	1°23	13°54	29°40	6°46	1°47	20°31	19°17	18°53	25°11	8°9	M17
T 18	5 48 48	26°50'48	14°53	2°14	8°37	2°8	14°5	29°43	6°45	1°48	20°30	19°16	18°50	25°18	8°8	T 18
W19	5 52 45	27°51'56	27°48	3°50	9°48	2°52	14°17	29°45	6°43	1°49	20°29	19°D16	18°47	25°24	8°6	W19
T 20	5 56 41	28°53'05	11♂6	5°27	10°59	3°37	14°28	29°47	6°42	1°50	20°27	19°16	18°43	25°31	8°4	T 20
F 21	6 0 38	29°54'15	24°49	7°3	12°10	4°21	14°39	29°49	6°41	1°52	20°26	19°17	18°40	25°38	8°2	F 21
S 22	6 4 34	0♂55'26	8♂57	8°40	13°21	5°6	14°50	29°51	6°40	1°53	20°25	19°18	18°37	25°44	8°1	S 22
S 23	6 8 31	1°56'37	23°31	10°17	14°31	5°51	15°1	29°53	6°39	1°54	20°24	19°19	18°34	25°51	7°59	S 23
M24	6 12 27	2°57'48	8♂25	11°54	15°42	6°35	15°11	29°55	6°37	1°56	20°23	19°19	18°31	25°57	7°58	M24
T 25	6 16 24	3°59'00	23°34	13°31	16°53	7°20	15°22	29°56	6°36	1°57	20°21	19°R20	18°28	26°4	7°56	T 25
W26	6 20 21	5°0'12	8♂48	15°8	18°3	8°4	15°33	29°58	6°35	1°59	20°20	19°19	18°24	26°11	7°55	W26
T 27	6 24 17	6°1'24	23°57	16°45	19°13	8°49	15°43	29°59	6°35	2°0	20°19	19°17	18°21	26°17	7°54	T 27
F 28	6 28 14	7°2'37	8♂52	18°22	20°24	9°33	15°54	0♂1	6°34	2°1	20°18	19°15	18°18	26°24	7°53	F 28
S 29	6 32 10	8°3'48	23°26	20°0	21°34	10°18	16°4	0°2	6°33	2°3	20°16	19°13	18°15	26°31	7°51	S 29
S 30	6 36 7	9°5'00	7♂33	21°37	22°44	11°3	16°15	0°3	6°32	2°4	20°15	19°10	18°12	26°37	7°50	S 30
M31	6 40 3	10♂6'11	21♂12	23♂13	23♂54	11♂47	16♂25	0♂4	6♂31	2♂6	20♂14	19♂8	18♂9	26♂44	7♂49	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	21s55	20s36	4s22	21s42	0s28	24s21	2s8	16s16	1s21	14s7	1n0	2n27	2n9	13n31	0s27	11s39
S 2	22 4	16 37	4 57	22 5	0 34	24 11	2 9	16 1	1 20	14 11	1 0	2 25	2 9	13 31	0 27	11 39
M 3	22 13	11 53	5 15	22 26	0 41	24 1	2 9	15 46	1 19	14 15	1 0	2 24	2 9	13 30	0 27	11 39
T 4	22 21	6 45	5 16	22 47	0 47	23 50	2 9	15 30	1 17	14 18	1 0	2 23	2 10	13 30	0 27	11 39
W 5	22 28	1 27	5 1 23	6	0 53	23 38	2 9	15 15	1 16	14 22	1 0	2 22	2 10	13 29	0 27	11 38
T 6	22 36	3n47	4 32	23 24	0 59	23 25	2 10	14 59	1 15	14 26	1 0	2 20	2 10	13 28	0 27	11 38
F 7	22 42	8 48	3 51	23 41	1 5	23 12	2 10	14 43	1 14	14 29	1 0	2 19	2 11	13 28	0 27	11 38
S 8	22 49	13 25	3 1	23 57	1 10	22 59	2 10	14 27	1 13	14 33	1 1	2 18	2 11	13 27	0 27	11 37
S 9	22 55	17 28	2 2	24 11	1 16	22 44	2 9	14 11	1 11	14 36	1 1	2 17	2 11	13 27	0 27	11 37
M10	23 0	20 48	0 59	24 25	1 21	22 29	2 9	13 55	1 10	14 40	1 1	2 16	2 11	13 26	0 27	11 37
T 11	23 5	23 14	0n6	24 37	1 26	22 13	2 9	13 38	1 9	14 44	1 1	2 15	2 12	13 26	0 27	11 36
W12	23 9	24 39	1 11	24 47	1 31	21 57	2 8	13 22	1 8	14 47	1 1	2 14	2 12	13 25	0 26	11 36
T 13	23 13	24 57	2 13	24 57	1 35	21 40	2 8	13 5	1 7	14 51	1 1	2 13	2 12	13 25	0 26	11 36
F 14	23 17	24 7	3 10	25 5	1 40	21 23	2 7	12 49	1 6	14 54	1 1	2 12	2 12	13 24	0 26	11 35
S 15	23 20	22 10	3 58	25 11	1 44	21 5	2 6	12 32	1 4	14 57	1 1	2 12	2 13	13 24	0 26	11 35
S 16	23 23	19 14	4 37	25 16	1 48	20 46	2 5	12 15	1 3	15 1	1 1	2 11	2 13	13 23	0 26	11 34
M17	23 25	15 24	5 4	25 20	1 51	20 27	2 4	11 58	1 2	15 4	1 1	2 10	2 13	13 23	0 26	11 34
T 18	23 27	10 50	5 17	25 22	1 55	20 7	2 3	11 41	1 1	15 7	1 1	2 9	2 14	13 23	0 26	11 33
W19	23 28	5 41	5 14	25 23	1 58	19 47	2 2	11 24	1 0	15 11	1 1	2 9	2 14	13 22	0 26	11 33
T 20	23 29	0 8	4 55	25 23	2 1	19 26	2 1	11 7	0 59	15 14	1 1	2 8	2 14	13 22	0 26	11 33
F 21	23 29	5s37	4 19	25 20	2 3	19 5	1 59	10 49	0 57	15 17	1 1	2 8	2 14	13 21	0 26	11 32
S 22	23 29	11 15	3 26	25 17	2 5	18 43	1 58	10 32	0 56	15 20	1 1	2 7	2 15	13 21	0 26	11 32
S 23	23 28	16 27	2 18	25 11	2 7	18 21	1 56	10 14	0 55	15 23	1 1	2 7	2 15	13 21	0 26	11 31
M24	23 27	20 45	1 0	25 4	2 8	17 58	1 54	9 57	0 54	15 26	1 1	2 6	2 15	13 20	0 26	11 31
T 25	23 25	23 43	0s23	24 56	2 9	17 35	1 52	9 39	0 53	15 29	1 2	2 6	2 15	13 20	0 26	11 30
W26	23 23	24 57	1 46	24 46	2 9	17 12	1 50	9 22	0 52	15 32	1 2	2 5	2 16	13 20	0 26	11 30
T 27	23 21	24 19	3 0	24 34	2 10	16 48	1 48	9 4	0 51	15 35	1 2	2 5	2 16	13 19	0 26	11 29
F 28	23 18	21 57	4 1	24 21	2 9	16 23	1 46	8 46	0 50	15 38	1 2	2 5	2 16	13 19	0 26	11 29
S 29	23 14	18 12	4 45	24 6	2 8	15 59	1 44	8 28	0 49	15 41	1 2	2 5	2 17	13 19	0 26	11 28
S 30	23 10	13 32	5 9	23 50	2 7	15 33	1 41	8 10	0 47	15 44	1 2	2 4	2 17	13 19	0 26	11 27
M31	23s6	8s20	5s16	23s32	2s5	15s8	1s39	7s52	0s46	15s47	1n2	2n4	2n17	13n18	0s26	11s27

Julian Day Number = 2336828.5, Delta T = 20.44 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'22, Lahiri = 19°28'22Greg. Calendar