



Astrodienst Ephemeris Tables for the year 1683

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 1683
geocentric

JANUARY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 42 55	10 ³⁵ 35	15 ⁴²	20 ³³	20 ²⁹	12 ⁴⁰	21°R12	19°R34	24°R12	25 ³⁹	16°R17	14°D36	16 ⁸	24 ⁴⁵	24°R39	F 1
S 2	6 46 52	11°51'46	27°30	21°55	20°57	13° 7	21 ¹²	19 ³⁰	24°D12	25°41	16 ¹⁶	14 ³⁶	16° 5	24°51	24°Y39	S 2
S 3	6 50 49	12°52'56	9 ¹⁶	23°17	21°23	13°34	21° 2	19°27	24°Y12	25°42	16°15	14°38	16° 1	24°58	24°39	S 3
M 4	6 54 45	13°54'06	21° 5	24°40	21°48	14° 0	20°57	19°24	24°12	25°44	16°13	14°40	15°58	25° 5	24°D39	M 4
T 5	6 58 42	14°55'16	3 ^Y 1	26° 5	22°11	14°27	20°52	19°20	24°12	25°46	16°12	14°42	15°55	25°11	24°39	T 5
W 6	7 2 38	15°56'25	15° 9	27°30	22°32	14°53	20°47	19°17	24°12	25°48	16°11	14°R42	15°52	25°18	24°39	W 6
T 7	7 6 35	16°57'34	27°34	28°56	22°51	15°19	20°41	19°13	24°13	25°50	16° 9	14°42	15°49	25°25	24°39	T 7
F 8	7 10 31	17°58'42	10 ²²	0 ²²	23° 8	15°45	20°36	19° 9	24°13	25°52	16° 8	14°40	15°45	25°31	24°39	F 8
S 9	7 14 28	18°59'49	23°34	1°50	23°23	16°11	20°30	19° 5	24°13	25°53	16° 7	14°37	15°42	25°38	24°40	S 9
S 10	7 18 24	20° 0'56	7 ^{II} 14	3°18	23°35	16°36	20°24	19° 1	24°14	25°55	16° 6	14°33	15°39	25°45	24°40	S 10
M 11	7 22 21	21° 2'02	21°21	4°46	23°46	17° 1	20°18	18°57	24°14	25°57	16° 4	14°30	15°36	25°51	24°40	M 11
T 12	7 26 18	22° 3'07	5 ⁵ 52	6°16	23°54	17°26	20°12	18°53	24°15	25°59	16° 3	14°26	15°33	25°58	24°41	T 12
W 13	7 30 14	23° 4'12	20°42	7°45	23°59	17°51	20° 6	18°49	24°15	26° 1	16° 2	14°24	15°30	26° 5	24°41	W 13
T 14	7 34 11	24° 5'16	5 ^{II} 42	9°16	24° 3	18°15	19°59	18°45	24°16	26° 3	16° 0	14°23	15°26	26°11	24°42	T 14
F 15	7 38 7	25° 6'20	20°44	10°47	24°R 4	18°39	19°53	18°41	24°16	26° 5	15°59	14°D23	15°23	26°18	24°43	F 15
S 16	7 42 4	26° 7'23	5 ^{II} 40	12°19	24° 2	19° 3	19°46	18°37	24°17	26° 7	15°58	14°24	15°20	26°24	24°43	S 16
S 17	7 46 0	27° 8'25	20°22	13°51	23°58	19°26	19°39	18°32	24°18	26° 9	15°57	14°25	15°17	26°31	24°44	S 17
M 18	7 49 57	28° 9'27	4 ^{II} 46	15°24	23°51	19°49	19°32	18°28	24°19	26°11	15°55	14°26	15°14	26°38	24°45	M 18
T 19	7 53 54	29°10'29	18°48	16°57	23°42	20°12	19°25	18°24	24°20	26°13	15°54	14°27	15°11	26°44	24°46	T 19
W 20	7 57 50	0 ^{II} 11'30	2 ^{II} 29	18°31	23°31	20°35	19°18	18°19	24°20	26°15	15°53	14°R27	15° 7	26°51	24°47	W 20
T 21	8 1 47	1°12'31	15°49	20° 6	23°17	20°57	19°11	18°15	24°21	26°18	15°52	14°27	15° 4	26°58	24°48	T 21
F 22	8 5 43	2°13'31	28°50	21°41	23° 0	21°19	19° 4	18°10	24°22	26°20	15°50	14°26	15° 1	27° 4	24°49	F 22
S 23	8 9 40	3°14'30	11 ^{II} 34	23°17	22°41	21°41	18°56	18° 5	24°23	26°22	15°49	14°24	14°58	27°11	24°50	S 23
S 24	8 13 36	4°15'29	24° 4	24°53	22°20	22° 2	18°49	18° 1	24°25	26°24	15°48	14°23	14°55	27°18	24°51	S 24
M 25	8 17 33	5°16'27	6 ^{II} 22	26°31	21°56	22°23	18°41	17°56	24°26	26°26	15°47	14°21	14°51	27°24	24°52	M 25
T 26	8 21 29	6°17'24	18°29	28° 8	21°31	22°44	18°34	17°51	24°27	26°28	15°46	14°20	14°48	27°31	24°53	T 26
W 27	8 25 26	7°18'20	0 ^{II} 29	29°47	21° 3	23° 4	18°26	17°47	24°28	26°30	15°44	14°19	14°45	27°38	24°55	W 27
T 28	8 29 23	8°19'15	12°22	1 ^{II} 26	20°33	23°24	18°18	17°42	24°30	26°33	15°43	14°D19	14°42	27°44	24°56	T 28
F 29	8 33 19	9°20'09	24°12	3° 6	20° 2	23°43	18°11	17°37	24°31	26°35	15°42	14°19	14°39	27°51	24°58	F 29
S 30	8 37 16	10°21'01	5 ^{II} 59	4°47	19°29	24° 3	18° 3	17°32	24°32	26°37	15°41	14°20	14°36	27°58	24°59	S 30
S 31	8 41 12	11 ^{II} 21'53	17 ^{II} 47	6 ^{II} 29	18 ^{II} 55	24 ^{II} 21	17 ^{II} 55	17 ^{II} 55	24 ^{II} Y34	26 ^{II} 39	15 ^{II} 40	14 ^{II} 20	14 ^{II} 32	28 ^{II} 4	25 ^{II} Y 1	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	23s 2	16s15	0s 6	22s27	0n41	14s 5	0n38	3s 4	2n 7	15n21	0n56	16n 4	1n 9	8n53	0s33	13s31
S 2	22 57	13 28	1 10	22 41	0 33	13 46	0 49	3 14	2 8	15 22	0 56	16 5	1 9	8 53	0 33	13 31
S 3	22 51	10 8	2 11	22 54	0 25	13 26	1 1	3 24	2 8	15 24	0 57	16 6	1 9	8 53	0 33	13 30
M 4	22 45	6 24	3 7	23 5	0 17	13 8	1 12	3 33	2 9	15 26	0 57	16 8	1 9	8 53	0 33	13 30
T 5	22 39	2 24	3 55	23 16	0 9	12 49	1 24	3 43	2 9	15 28	0 57	16 9	1 10	8 53	0 33	13 29
W 6	22 32	1n46	4 34	23 26	0 1	12 31	1 36	3 53	2 10	15 30	0 57	16 10	1 10	8 53	0 33	13 28
T 7	22 24	5 57	5 1	23 35	0s 6	12 13	1 48	4 2	2 10	15 32	0 57	16 12	1 10	8 53	0 33	13 28
F 8	22 16	9 59	5 14	23 42	0 14	11 55	2 1	4 12	2 11	15 34	0 58	16 13	1 10	8 53	0 33	13 27
S 9	22 8	13 41	5 11	23 49	0 21	11 38	2 14	4 21	2 12	15 36	0 58	16 14	1 10	8 54	0 33	13 26
S 10	21 59	16 47	4 51	23 54	0 28	11 21	2 27	4 30	2 12	15 38	0 58	16 16	1 10	8 54	0 33	13 26
M 11	21 50	19 0	4 12	23 59	0 35	11 5	2 41	4 39	2 13	15 40	0 58	16 17	1 11	8 54	0 33	13 25
T 12	21 40	20 4	3 17	24 2	0 42	10 50	2 55	4 48	2 13	15 42	0 59	16 18	1 11	8 54	0 33	13 24
W 13	21 30	19 47	2 7	24 3	0 48	10 35	3 9	4 57	2 14	15 44	0 59	16 20	1 11	8 54	0 33	13 24
T 14	21 20	18 6	0 48	24 4	0 55	10 20	3 23	5 6	2 15	15 46	0 59	16 21	1 11	8 55	0 33	13 23
F 15	21 9	15 10	0n35	24 3	1 1	10 6	3 37	5 14	2 15	15 49	0 59	16 23	1 11	8 55	0 33	13 22
S 16	20 58	11 14	1 55	24 1	1 7	9 53	3 52	5 23	2 16	15 51	0 59	16 24	1 11	8 55	0 33	13 22
S 17	20 46	6 41	3 6	23 57	1 12	9 40	4 7	5 31	2 16	15 53	1 0	16 26	1 12	8 56	0 33	13 21
M 18	20 34	1 51	4 4	23 53	1 18	9 29	4 21	5 39	2 17	15 56	1 0	16 27	1 12	8 56	0 33	13 20
T 19	20 21	2s58	4 46	23 47	1 23	9 18	4 36	5 47	2 18	15 58	1 0	16 29	1 12	8 56	0 33	13 20
W 20	20 9	7 30	5 10	23 39	1 28	9 8	4 51	5 55	2 18	16 0	1 0	16 30	1 12	8 57	0 33	13 19
T 21	19 55	11 32	5 17	23 30	1 33	8 58	5 5	6 3	2 19	16 3	1 0	16 32	1 12	8 57	0 33	13 18
F 22	19 42	14 56	5 7	23 20	1 37	8 50	5 20	6 11	2 19	16 5	1 0	16 33	1 12	8 57	0 33	13 17
S 23	19 28	17 33	4 42	23 8	1 41	8 42	5 34	6 18	2 20	16 8	1 1	16 35	1 12	8 58	0 33	13 17
S 24	19 14	19 17	4 4	22 54	1 45	8 35	5 49	6 25	2 20	16 10	1 1	16 36	1 13	8 58	0 33	13 16
M 25	18 59	20 4	3 16	22 40	1 48	8 30	6 2	6 33	2 21	16 13	1 1	16 38	1 13	8 59	0 33	13 15
T 26	18 44	19 55	2 19	22 23	1 52	8 25	6 16	6 40	2 22	16 15	1 1	16 40	1 13	8 59	0 33	13 15
W 27	18 29	18 50	1 16	22 6	1 55	8 21	6 29	6 47	2 22	16 18	1 1	16 41	1 13	9 0	0 32	13 14
T 28	18 13	16 57	0 11	21 47	1 57	8 18	6 42	6 53	2 23	16 20	1 1	16 43	1 13	9 0	0 32	13 13
F 29	17 57	14 20	0s55	21 26	1 59	8 16	6 54	7 0	2 23	16 23	1 1	16 44	1 13	9 1	0 32	13 12
S 30	17 41	11 9	1 58	21 4	2 1	8 15	7 6	7 7	2 24	16 25	1 2	16 46	1 13	9 1	0 32	13 12
S 31	17s24	7s32	2s56	20s40	2s 3	8s15	7n17	7s13	2n25	16n28	1n 2	16n48	1n13	9n 2	0s32	13s11

Julian Day Number = 2335763.5, Delta T = 21.99 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'55, Lahiri = 19°25'56Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1683

geocentric

FEBRUARY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 45 9	12 ²² 22'42"	29 ¹⁸ 38	8 ¹¹ 11	18°R20	24 ¹⁶ 40	17°R47	17°R23	24 ¹⁷ 35	26 ²² 41	15°R39	14 ¹⁸ 20	14 ¹⁸ 29	28 ²² 11	25 ¹⁷ 2	M 1
T 2	8 49 5	13°23'31"	11 ¹⁷ 35	9°54	17 ¹⁷ 44	24°58	17 ¹⁷ 39	17 ¹⁷ 18	24°37	26°44	15 ¹⁸ 37	14°21	14°26	28°17	25°4	T 2
W 3	8 53 2	14°24'18"	23°44	11°38	17°7	25°15	17°31	17°13	24°38	26°46	15°36	14°R21	14°23	28°24	25°6	W 3
T 4	8 56 58	15°25'04"	6 ¹⁸ 7	13°22	16°30	25°32	17°23	17°8	24°40	26°48	15°35	14°21	14°20	28°31	25°7	T 4
F 5	9 0 55	16°25'47"	18°49	15°8	15°52	25°49	17°15	17°3	24°42	26°50	15°34	14°D21	14°17	28°37	25°9	F 5
S 6	9 4 51	17°26'30"	1 ¹¹ 53	16°54	15°15	26°5	17°7	16°58	24°43	26°53	15°33	14°21	14°13	28°44	25°11	S 6
S 7	9 8 48	18°27'11"	15°23	18°41	14°38	26°21	17°0	16°53	24°45	26°55	15°32	14°21	14°10	28°51	25°13	S 7
M 8	9 12 45	19°27'50"	29°20	20°28	14°2	26°36	16°52	16°48	24°47	26°57	15°31	14°21	14°7	28°57	25°15	M 8
T 9	9 16 41	20°28'27"	13 ¹⁸ 44	22°17	13°27	26°51	16°44	16°43	24°49	26°59	15°30	14°22	14°4	29°4	25°17	T 9
W10	9 20 38	21°29'03"	28°32	24°6	12°52	27°5	16°36	16°39	24°51	27°2	15°29	14°22	14°1	29°11	25°19	W10
T 11	9 24 34	22°29'37"	13 ¹⁸ 37	25°56	12°19	27°19	16°28	16°34	24°53	27°4	15°28	14°R23	13°57	29°17	25°21	T 11
F 12	9 28 31	23°30'10"	28°51	27°46	11°48	27°33	16°20	16°29	24°55	27°6	15°27	14°22	13°54	29°24	25°24	F 12
S 13	9 32 27	24°30'40"	14 ¹⁷ 4	29°37	11°18	27°45	16°12	16°24	24°57	27°9	15°26	14°22	13°51	29°31	25°26	S 13
S 14	9 36 24	25°31'10"	29°6	1 ¹⁸ 29	10°51	27°58	16°4	16°19	24°59	27°11	15°25	14°20	13°48	29°37	25°28	S 14
M15	9 40 20	26°31'38"	13 ¹⁸ 50	3°21	10°25	28°10	15°57	16°15	25°1	27°13	15°24	14°19	13°45	29°44	25°30	M15
T 16	9 44 17	27°32'05"	28°9	5°13	10°2	28°21	15°49	16°10	25°3	27°15	15°23	14°17	13°42	29°51	25°33	T 16
W17	9 48 14	28°32'30"	12 ¹⁸ 2	7°5	9°40	28°32	15°41	16°5	25°5	27°18	15°22	14°16	13°38	29°57	25°35	W17
T 18	9 52 10	29°32'54"	25°27	8°57	9°21	28°42	15°34	16°0	25°8	27°20	15°21	14°D16	13°35	0 ¹⁸ 4	25°38	T 18
F 19	9 56 7	0 ¹⁸ 33'17"	8 ¹⁷ 27	10°49	9°5	28°51	15°26	15°56	25°10	27°22	15°21	14°16	13°32	0°11	25°40	F 19
S 20	10 0 3	1°33'38"	21°6	12°40	8°51	29°0	15°19	15°51	25°12	27°24	15°20	14°17	13°29	0°17	25°43	S 20
S 21	10 4 0	2°33'58"	3 ¹⁸ 27	14°31	8°39	29°9	15°12	15°47	25°15	27°27	15°19	14°18	13°26	0°24	25°45	S 21
M22	10 7 56	3°34'17"	15°34	16°20	8°30	29°16	15°4	15°42	25°17	27°29	15°18	14°20	13°23	0°30	25°48	M22
T 23	10 11 53	4°34'33"	27°31	18°7	8°24	29°23	14°57	15°38	25°19	27°31	15°17	14°21	13°19	0°37	25°51	T 23
W24	10 15 49	5°34'49"	9 ¹⁸ 22	19°53	8°20	29°30	14°50	15°33	25°22	27°34	15°17	14°R22	13°16	0°44	25°53	W24
T 25	10 19 46	6°35'02"	21°10	21°36	8°D18	29°36	14°43	15°29	25°24	27°36	15°16	14°22	13°13	0°50	25°56	T 25
F 26	10 23 43	7°35'14"	2 ¹⁸ 57	23°16	8°19	29°41	14°36	15°24	25°27	27°38	15°15	14°21	13°10	0°57	25°59	F 26
S 27	10 27 39	8°35'24"	14°46	24°53	8°22	29°45	14°30	15°20	25°30	27°40	15°14	14°18	13°7	1°4	26°2	S 27
S 28	10 31 36	9 ¹⁸ 35'32"	26 ¹⁸ 38	26 ¹⁸ 38	8 ²² 27	29 ¹⁶ 49	14 ¹⁸ 23	15 ¹⁸ 16	25 ¹⁷ 37	27 ²² 43	15 ¹⁸ 14	14 ¹⁸ 14	13 ¹⁸ 3	1 ¹⁸ 10	26 ¹⁷ 5	S 28

Day	☉	☾		♀		♀		♂		♂		♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	17s 7	3s37	3s46	20s15	2s 4	8s16	7n27	7s19	2n25	16n30	1n 2	16n49	1n13	9n 2	0s32	13s10	0s34	22n38	0n 4	16n33	16n31	13s16	9n32	0s11	
T 2	16 50	0n29	4 28	19 48	2 4	8 18	7 36	7 25	2 26	16 33	1 2	16 51	1 14	9 3	0 32	13 9	0 34	22 38	0 4	16 33	16 32	13 15	9 33	0 11	
W 3	16 32	4 37	4 58	19 19	2 5	8 20	7 45	7 31	2 26	16 36	1 2	16 52	1 14	9 4	0 32	13 9	0 34	22 38	0 4	16 33	16 33	13 13	9 34	0 11	
T 4	16 14	8 37	5 15	18 49	2 5	8 24	7 53	7 37	2 27	16 38	1 2	16 54	1 14	9 4	0 32	13 8	0 34	22 38	0 4	16 33	16 34	13 12	9 34	0 11	
F 5	15 56	12 22	5 17	18 18	2 4	8 28	7 59	7 42	2 27	16 41	1 2	16 55	1 14	9 5	0 32	13 7	0 34	22 39	0 4	16 33	16 34	13 10	9 35	0 11	
S 6	15 38	15 37	5 3	17 45	2 3	8 33	8 5	7 47	2 28	16 43	1 2	16 57	1 14	9 6	0 32	13 6	0 34	22 39	0 5	16 33	16 35	13 9	9 35	0 11	
S 7	15 19	18 9	4 33	17 10	2 1	8 39	8 10	7 53	2 28	16 46	1 3	16 59	1 14	9 6	0 32	13 6	0 34	22 39	0 5	16 33	16 36	13 7	9 36	0 11	
M 8	15 0	19 43	3 45	16 34	1 59	8 45	8 14	7 58	2 29	16 48	1 3	17 0	1 14	9 7	0 32	13 5	0 34	22 39	0 5	16 33	16 37	13 6	9 37	0 11	
T 9	14 41	20 5	2 42	15 57	1 57	8 52	8 17	8 2	2 30	16 51	1 3	17 2	1 14	9 8	0 32	13 4	0 34	22 39	0 5	16 33	16 38	13 4	9 37	0 11	
W10	14 22	19 4	1 27	15 18	1 54	8 59	8 20	8 7	2 30	16 53	1 3	17 3	1 14	9 8	0 32	13 3	0 34	22 39	0 5	16 33	16 39	13 3	9 38	0 11	
T 11	14 2	16 42	0 4	14 37	1 50	9 7	8 21	8 12	2 31	16 56	1 3	17 5	1 14	9 9	0 32	13 2	0 34	22 40	0 5	16 33	16 40	13 1	9 39	0 11	
F 12	13 42	13 8	1n20	13 55	1 46	9 15	8 21	8 16	2 31	16 58	1 3	17 6	1 15	9 10	0 32	13 2	0 34	22 40	0 5	16 33	16 41	12 59	9 40	0 11	
S 13	13 22	8 42	2 38	13 12	1 41	9 23	8 21	8 20	2 32	17 1	1 3	17 8	1 15	9 11	0 32	13 1	0 34	22 40	0 5	16 33	16 42	12 58	9 40	0 12	
S 14	13 2	3 47	3 44	12 27	1 36	9 32	8 19	8 24	2 32	17 3	1 3	17 9	1 15	9 12	0 32	13 0	0 34	22 40	0 5	16 33	16 43	12 56	9 41	0 12	
M15	12 42	1s16	4 34	11 42	1 30	9 40	8 17	8 28	2 33	17 5	1 3	17 11	1 15	9 12	0 32	12 59	0 34	22 40	0 5	16 34	16 44	12 55	9 42	0 12	
T 16	12 21	6 5	5 5	10 54	1 23	9 49	8 14	8 31	2 33	17 8	1 3	17 12	1 15	9 13	0 32	12 59	0 34	22 41	0 5	16 34	16 45	12 53	9 43	0 12	
W17	12 0	10 26	5 17	10 6	1 16	9 59	8 10	8 35	2 34	17 10	1 3	17 14	1 15	9 14	0 32	12 58	0 34	22 41	0 5	16 35	16 45	12 52	9 43	0 12	
T 18	11 39	14 7	5 11	9 17	1 8	10 8	8 6	8 38	2 34	17 12	1 3	17 15	1 15	9 15	0 32	12 57	0 34	22 41	0 5	16 35	16 46	12 50	9 44	0 12	
F 19	11 18	16 59	4 49	8 27	1 0	10 17	8 1	8 41	2 34	17 15	1 3	17 17	1 15	9 16	0 32	12 56	0 34	22 41	0 5	16 35	16 47	12 49	9 45	0 12	
S 20	10 56	18 57	4 14	7 36	0 51	10 26	7 55	8 43	2 35	17 17	1 3	17 18	1 15	9 17	0 32	12 55	0 34	22 41	0 5	16 34	16 48	12 47	9 46	0 12	
S 21	10 35	19 58	3 28	6 44	0 41	10 34	7 49	8 46	2 35	17 19	1 3	17 20	1 15	9 17	0 32	12 55	0 34	22 41	0 5	16 34	16 49	12 45	9 47	0 12	
M22	10 13	20 2	2 33	5 52	0 30	10 43	7 42	8 48	2 36	17 21	1 3	17 21	1 15	9 18	0 32	12 54	0 34	22 41	0 6	16 34	16 50	12 44	9 48	0 12	
T 23	9 51	19 11	1 32	5 0	0 19	10 52	7 35	8 51	2 36	17 23	1 4	17 22	1 15	9 19	0 32	12 53	0 34	22 42	0 6	16 33	16 51	12 42	9 49	0 12	
W24	9 29	17 30	0 28	4 8	0 8	11 0	7 28	8 53	2 36	17 25	1 4	17 24	1 15	9 20	0 32	12 52	0 34	22 42	0 6	16 33	16 52	12 41	9 50	0 12	
T 25	9 7	15 4	0s37	3 16	0n 5	11 8	7 20	8 54	2 37	17 27	1 4	17 25	1 15	9 21	0 32	12 52	0 34	22 42	0 6	16 33	16 53	12 39	9 51	0 12	
F 26	8 44	12 0	1 41	2 25	0 17	11 15	7 12	8 56	2 37	17 29	1 4	17 27	1 15	9 22	0 32	12 51	0 34	22 42	0 6	16 33	16 54	12 38	9 52	0 12	
S 27	8 22	8 28	2 40	1 35	0 30	11 23	7 3	8 57	2 37	17 31	1 4	17 28	1 15	9 23	0 32	12 50	0 34	22 42	0 6	16 34	16 55	12 36	9 52	0 13	
S 28	7s59	4s35	3s32	0s46	0n44	11s30	6n55	8s58	2n38	17n33	1n 4	17n29	1n15	9n24	0s32	12s49	0s34	22n42	0n 6	16n35	16n55	12s34	9n53	0s13	

Julian Day Number = 2335794.5, Delta T = 21.94 sec

Ecliptic obliquity = 23°28'43", Nutation = - 0°00'11", out-of-bounds declination in red

ASTRODIENST EPHEMERIS for the year 1683

geocentric

MARCH 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 35 32	10 ^h 35 ^m 38 ^s	8 ^h 36 ^m	27 ^h 53 ^m	8 ^h 35 ^m	29 ^h 52 ^m	14 ^h 17 ^m	15 ^h 12 ^m	25 ^h 35 ^m	27 ^h 45 ^m	15 ^h 13 ^m	14 ^h 10 ^m	13 ^h 00 ^m	1 ^h 17 ^m	26 ^h 07 ^m	M 1
T 2	10 39 29	11 ^h 35 ^m 42 ^s	20 ^h 41 ^m	29 ^h 16 ^m	8 ^h 45 ^m	29 ^h 55 ^m	14 ^h 01 ^m	15 ^h 08 ^m	25 ^h 37 ^m	27 ^h 47 ^m	15 ^h 02 ^m	14 ^h 05 ^m	12 ^h 57 ^m	1 ^h 24 ^m	26 ^h 11 ^m	T 2
W 3	10 43 25	12 ^h 35 ^m 44 ^s	2 ^h 56 ^m	0 ^h 33 ^m	8 ^h 57 ^m	29 ^h 56 ^m	14 ^h 04 ^m	15 ^h 03 ^m	25 ^h 40 ^m	27 ^h 49 ^m	15 ^h 12 ^m	14 ^h 00 ^m	12 ^h 54 ^m	1 ^h 30 ^m	26 ^h 14 ^m	W 3
T 4	10 47 22	13 ^h 35 ^m 44 ^s	15 ^h 23 ^m	1 ^h 43 ^m	9 ^h 11 ^m	29 ^h 57 ^m	13 ^h 58 ^m	14 ^h 05 ^m	25 ^h 43 ^m	27 ^h 51 ^m	15 ^h 11 ^m	13 ^h 56 ^m	12 ^h 51 ^m	1 ^h 37 ^m	26 ^h 17 ^m	T 4
F 5	10 51 18	14 ^h 35 ^m 41 ^s	28 ^h 05 ^m	2 ^h 47 ^m	9 ^h 27 ^m	29 ^h 58 ^m	13 ^h 52 ^m	14 ^h 56 ^m	25 ^h 46 ^m	27 ^h 54 ^m	15 ^h 11 ^m	13 ^h 54 ^m	12 ^h 48 ^m	1 ^h 44 ^m	26 ^h 20 ^m	F 5
S 6	10 55 15	15 ^h 35 ^m 37 ^s	11 ^h 11 ^m	3 ^h 44 ^m	9 ^h 46 ^m	29 ^h 57 ^m	13 ^h 46 ^m	14 ^h 52 ^m	25 ^h 48 ^m	27 ^h 56 ^m	15 ^h 10 ^m	13 ^h 53 ^m	12 ^h 44 ^m	1 ^h 50 ^m	26 ^h 23 ^m	S 6
S 7	10 59 12	16 ^h 35 ^m 30 ^s	24 ^h 26 ^m	4 ^h 33 ^m	10 ^h 06 ^m	29 ^h 56 ^m	13 ^h 40 ^m	14 ^h 48 ^m	25 ^h 51 ^m	27 ^h 58 ^m	15 ^h 10 ^m	13 ^h 53 ^m	12 ^h 41 ^m	1 ^h 57 ^m	26 ^h 26 ^m	S 7
M 8	11 3 8	17 ^h 35 ^m 22 ^s	8 ^h 01 ^m	5 ^h 14 ^m	10 ^h 28 ^m	29 ^h 54 ^m	13 ^h 35 ^m	14 ^h 44 ^m	25 ^h 54 ^m	28 ^h 00 ^m	15 ^h 9 ^m	13 ^h 54 ^m	12 ^h 38 ^m	2 ^h 04 ^m	26 ^h 29 ^m	M 8
T 9	11 7 5	18 ^h 35 ^m 11 ^s	22 ^h 19 ^m	5 ^h 47 ^m	10 ^h 51 ^m	29 ^h 51 ^m	13 ^h 29 ^m	14 ^h 41 ^m	25 ^h 57 ^m	28 ^h 02 ^m	15 ^h 9 ^m	13 ^h 55 ^m	12 ^h 35 ^m	2 ^h 10 ^m	26 ^h 32 ^m	T 9
W10	11 11 1	19 ^h 34 ^m 57 ^s	6 ^h 01 ^m	6 ^h 11 ^m	11 ^h 17 ^m	29 ^h 48 ^m	13 ^h 24 ^m	14 ^h 37 ^m	26 ^h 00 ^m	28 ^h 05 ^m	15 ^h 8 ^m	13 ^h 56 ^m	12 ^h 32 ^m	2 ^h 17 ^m	26 ^h 36 ^m	W10
T 11	11 14 58	20 ^h 34 ^m 42 ^s	21 ^h 43 ^m	6 ^h 27 ^m	11 ^h 44 ^m	29 ^h 44 ^m	13 ^h 19 ^m	14 ^h 34 ^m	26 ^h 03 ^m	28 ^h 07 ^m	15 ^h 8 ^m	13 ^h 56 ^m	12 ^h 28 ^m	2 ^h 24 ^m	26 ^h 39 ^m	T 11
F 12	11 18 54	21 ^h 34 ^m 24 ^s	6 ^h 00 ^m	6 ^h 34 ^m	12 ^h 13 ^m	29 ^h 39 ^m	13 ^h 14 ^m	14 ^h 30 ^m	26 ^h 06 ^m	28 ^h 09 ^m	15 ^h 7 ^m	13 ^h 55 ^m	12 ^h 25 ^m	2 ^h 30 ^m	26 ^h 42 ^m	F 12
S 13	11 22 51	22 ^h 34 ^m 04 ^s	22 ^h 02 ^m	6 ^h 33 ^m	12 ^h 43 ^m	29 ^h 33 ^m	13 ^h 09 ^m	14 ^h 27 ^m	26 ^h 09 ^m	28 ^h 11 ^m	15 ^h 7 ^m	13 ^h 51 ^m	12 ^h 22 ^m	2 ^h 37 ^m	26 ^h 46 ^m	S 13
S 14	11 26 47	23 ^h 33 ^m 42 ^s	7 ^h 01 ^m	6 ^h 24 ^m	13 ^h 15 ^m	29 ^h 27 ^m	13 ^h 05 ^m	14 ^h 24 ^m	26 ^h 12 ^m	28 ^h 13 ^m	15 ^h 6 ^m	13 ^h 46 ^m	12 ^h 19 ^m	2 ^h 44 ^m	26 ^h 49 ^m	S 14
M15	11 30 44	24 ^h 33 ^m 18 ^s	22 ^h 03 ^m	6 ^h 07 ^m	13 ^h 48 ^m	29 ^h 19 ^m	13 ^h 00 ^m	14 ^h 20 ^m	26 ^h 15 ^m	28 ^h 15 ^m	15 ^h 6 ^m	13 ^h 40 ^m	12 ^h 16 ^m	2 ^h 50 ^m	26 ^h 52 ^m	M15
T 16	11 34 41	25 ^h 32 ^m 52 ^s	6 ^h 00 ^m	5 ^h 42 ^m	14 ^h 22 ^m	29 ^h 11 ^m	12 ^h 56 ^m	14 ^h 17 ^m	26 ^h 18 ^m	28 ^h 17 ^m	15 ^h 6 ^m	13 ^h 33 ^m	12 ^h 13 ^m	2 ^h 57 ^m	26 ^h 56 ^m	T 16
W17	11 38 37	26 ^h 32 ^m 25 ^s	20 ^h 38 ^m	5 ^h 11 ^m	14 ^h 58 ^m	29 ^h 02 ^m	12 ^h 52 ^m	14 ^h 14 ^m	26 ^h 21 ^m	28 ^h 19 ^m	15 ^h 6 ^m	13 ^h 28 ^m	12 ^h 09 ^m	3 ^h 03 ^m	26 ^h 59 ^m	W17
T 18	11 42 34	27 ^h 31 ^m 55 ^s	4 ^h 07 ^m	4 ^h 34 ^m	15 ^h 35 ^m	28 ^h 53 ^m	12 ^h 48 ^m	14 ^h 12 ^m	26 ^h 24 ^m	28 ^h 21 ^m	15 ^h 5 ^m	13 ^h 23 ^m	12 ^h 06 ^m	3 ^h 10 ^m	27 ^h 03 ^m	T 18
F 19	11 46 30	28 ^h 31 ^m 24 ^s	17 ^h 20 ^m	3 ^h 52 ^m	16 ^h 14 ^m	28 ^h 43 ^m	12 ^h 44 ^m	14 ^h 09 ^m	26 ^h 27 ^m	28 ^h 23 ^m	15 ^h 5 ^m	13 ^h 21 ^m	12 ^h 03 ^m	3 ^h 17 ^m	27 ^h 06 ^m	F 19
S 20	11 50 27	29 ^h 30 ^m 51 ^s	0 ^h 03 ^m	3 ^h 06 ^m	16 ^h 53 ^m	28 ^h 31 ^m	12 ^h 40 ^m	14 ^h 06 ^m	26 ^h 30 ^m	28 ^h 25 ^m	15 ^h 5 ^m	13 ^h 20 ^m	12 ^h 00 ^m	3 ^h 23 ^m	27 ^h 10 ^m	S 20
S 21	11 54 23	0 ^h 30 ^m 17 ^s	12 ^h 21 ^m	2 ^h 17 ^m	17 ^h 34 ^m	28 ^h 20 ^m	12 ^h 37 ^m	14 ^h 03 ^m	26 ^h 34 ^m	28 ^h 27 ^m	15 ^h 5 ^m	13 ^h 21 ^m	11 ^h 57 ^m	3 ^h 30 ^m	27 ^h 13 ^m	S 21
M22	11 58 20	1 ^h 29 ^m 41 ^s	24 ^h 25 ^m	1 ^h 26 ^m	18 ^h 16 ^m	28 ^h 07 ^m	12 ^h 34 ^m	14 ^h 01 ^m	26 ^h 37 ^m	28 ^h 29 ^m	15 ^h 4 ^m	13 ^h 22 ^m	11 ^h 54 ^m	3 ^h 37 ^m	27 ^h 17 ^m	M22
T 23	12 2 16	2 ^h 29 ^m 02 ^s	6 ^h 00 ^m	0 ^h 34 ^m	18 ^h 59 ^m	27 ^h 54 ^m	12 ^h 31 ^m	13 ^h 59 ^m	26 ^h 40 ^m	28 ^h 31 ^m	15 ^h 4 ^m	13 ^h 23 ^m	11 ^h 50 ^m	3 ^h 43 ^m	27 ^h 20 ^m	T 23
W24	12 6 13	3 ^h 28 ^m 22 ^s	18 ^h 07 ^m	29 ^h 04 ^m	19 ^h 42 ^m	27 ^h 40 ^m	12 ^h 28 ^m	13 ^h 56 ^m	26 ^h 43 ^m	28 ^h 33 ^m	15 ^h 4 ^m	13 ^h 23 ^m	11 ^h 47 ^m	3 ^h 50 ^m	27 ^h 24 ^m	W24
T 25	12 10 9	4 ^h 27 ^m 40 ^s	29 ^h 53 ^m	28 ^h 52 ^m	20 ^h 27 ^m	27 ^h 25 ^m	12 ^h 25 ^m	13 ^h 54 ^m	26 ^h 46 ^m	28 ^h 35 ^m	15 ^h 4 ^m	13 ^h 22 ^m	11 ^h 44 ^m	3 ^h 57 ^m	27 ^h 28 ^m	T 25
F 26	12 14 6	5 ^h 26 ^m 56 ^s	11 ^h 04 ^m	28 ^h 04 ^m	21 ^h 13 ^m	27 ^h 09 ^m	12 ^h 23 ^m	13 ^h 52 ^m	26 ^h 50 ^m	28 ^h 37 ^m	15 ^h 4 ^m	13 ^h 18 ^m	11 ^h 41 ^m	4 ^h 03 ^m	27 ^h 31 ^m	F 26
S 27	12 18 3	6 ^h 26 ^m 11 ^s	23 ^h 33 ^m	27 ^h 18 ^m	21 ^h 59 ^m	26 ^h 53 ^m	12 ^h 20 ^m	13 ^h 50 ^m	26 ^h 53 ^m	28 ^h 39 ^m	15 ^h 4 ^m	13 ^h 11 ^m	11 ^h 38 ^m	4 ^h 10 ^m	27 ^h 35 ^m	S 27
S 28	12 21 59	7 ^h 25 ^m 23 ^s	5 ^h 33 ^m	26 ^h 36 ^m	22 ^h 47 ^m	26 ^h 36 ^m	12 ^h 18 ^m	13 ^h 48 ^m	26 ^h 56 ^m	28 ^h 41 ^m	15 ^h 4 ^m	13 ^h 03 ^m	11 ^h 34 ^m	4 ^h 17 ^m	27 ^h 39 ^m	S 28
M29	12 25 56	8 ^h 24 ^m 33 ^s	17 ^h 41 ^m	25 ^h 59 ^m	23 ^h 35 ^m	26 ^h 19 ^m	12 ^h 16 ^m	13 ^h 46 ^m	27 ^h 00 ^m	28 ^h 43 ^m	15 ^h 04 ^m	12 ^h 53 ^m	11 ^h 31 ^m	4 ^h 23 ^m	27 ^h 42 ^m	M29
T 30	12 29 52	9 ^h 23 ^m 41 ^s	29 ^h 59 ^m	25 ^h 26 ^m	24 ^h 24 ^m	26 ^h 01 ^m	12 ^h 14 ^m	13 ^h 44 ^m	27 ^h 03 ^m	28 ^h 45 ^m	15 ^h 4 ^m	12 ^h 42 ^m	11 ^h 28 ^m	4 ^h 30 ^m	27 ^h 46 ^m	T 30
W31	12 33 49	10 ^h 22 ^m 47 ^s	12 ^h 08 ^m	24 ^h 08 ^m	25 ^h 00 ^m	25 ^h 00 ^m	12 ^h 03 ^m	13 ^h 04 ^m	27 ^h 06 ^m	28 ^h 47 ^m	15 ^h 04 ^m	12 ^h 02 ^m	11 ^h 02 ^m	4 ^h 37 ^m	27 ^h 50 ^m	W31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	7s36	0s30	4s15	0n 2	0n57	11s36	6n46	8s59	2n38	17n35	1n 4	17n30	1n15	9n25	0s31	12s49	0s34	22n42	0n 6	16n36	16n56	12s33	9n54	0s13			
T 2	7 14	3n39	4 48	0 48	1 11	11 43	6 37	9 0	2 38	17 37	1 4	17 32	1 15	9 26	0 31	12 48	0 34	22 43	0 6	16 38	16 57	12 31	9 55	0 13			
W 3	6 51	7 41	5 8	1 31	1 25	11 48	6 28	9 0	2 38	17 39	1 4	17 33	1 15	9 27	0 31	12 47	0 34	22 43	0 6	16 39	16 58	12 30	9 57	0 13			
T 4	6 28	11 29	5 13	2 12	1 39	11 54	6 18	9 0	2 38	17 41	1 4	17 34	1 16	9 28	0 31	12 46	0 34	22 43	0 6	16 40	16 59	12 28	9 58	0 13			
F 5	6 5	14 50	5 4	2 50	1 52	11 59	6 9	9 0	2 38	17 42	1 4	17 35	1 16	9 29	0 31	12 46	0 34	22 43	0 6	16 41	17 0	12 26	9 59	0 13			
S 6	5 41	17 32	4 39	3 25	2 6	12 3	5 59	9 0	2 39	17 44	1 4	17 36	1 16	9 30	0 31	12 45	0 34	22 43	0 6	16 41	17 1	12 25	10 0	0 13			
S 7	5 18	19 24	3 58	3 56	2 19	12 7	5 50	8 59	2 39	17 46	1 3	17 38	1 16	9 31	0 31	12 44	0 34	22 43	0 6	16 41	17 2	12 23	10 1	0 13			
M 8	4 55	20 11	3 3	4 24	2 31	12 11	5 40	8 59	2 39	17 47	1 3	17 39	1 16	9 32	0 31	12 43	0 34	22 43	0 6	16 41	17 3	12 22	10 2	0 13			
T 9	4 31	19 44	1 56	4 47	2 43	12 14	5 31	8 58	2 39	17 49	1 3	17 40	1 16	9 33	0 31	12 43	0 34	22 43	0 6	16 41	17 4	12 20	10 3	0 13			
W10	4 8	17 58	0 39	5 7	2 54	12 16	5 21	8 57	2 39	17 50	1 3	17 41	1 16	9 34	0 31	12 42	0 34	22 44	0 7	16 40	17 5	12 18	10 4	0 13			
T11	3 44	14 57	0n42	5 22	3 3	12 18	5 11	8 55	2 39	17 52	1 3	17 42	1 16	9 35	0 31	12 41	0 34	22 44	0 7	16 40	17 5	12 17	10 5	0 13			
F 12	3 21	10 54	2 2	5 33	3 12	12 20	5 2	8 54	2 38	17 53	1 3	17 43	1 16	9 37	0 31	12 40	0 34	22 44	0 7	16 41	17 6	12 15	10 6	0 13			
S 13	2 57	6 7	3 13	5 39	3 19	12 21	4 52	8 52	2 38	17 54	1 3	17 44	1 16	9 38	0 31	12 40	0 34	22 44	0 7	16 42	17 7	12 13	10 7	0 14			
S 14	2 34	0 58	4 10	5 41	3 25	12 21	4 42	8 50	2 38	17 56	1 3	17 45	1 16	9 39	0 31	12 39	0 34	22 44	0 7	16 43	17 8	12 12	10 9	0 14			
M15	2 10	4s 8	4 49	5 38	3 29	12 21	4 33	8 47	2 38	17 57	1 3	17 46	1 16	9 40	0 31	12 38	0 34	22 44	0 7	16 45	17 9	12 10	10 10	0 14			
T 16	1 46	8 53	5 8	5 30	3 32	12 21	4 23	8 45	2 38	17 58	1 3	17 47	1 16	9 41	0 31	12 38	0 34	22 44	0 7	16 47	17 10	12 9	10 11	0 14			
W17	1 23	13 0	5 8	5 19	3 32	12 19	4 14	8 42	2 37	17 59	1 3	17 47	1 16	9 42	0 31	12 37	0 34	22 44	0 7	16 49	17 11	12 7	10 12	0 14			
T 18	0 59	16 16	4 50	5 3	3 31	12 18	4 4	8 39	2 37	18 0	1 3	17 48	1 16	9 43	0 31	12 36	0 34	22 44	0 7	16 50	17 12	12 5	10 13	0 14			
F 19	0 35	18 36	4 17	4 44	3 28	12 15	3 55	8 36	2 36	18 1	1 3	17 49	1 16	9 44	0 31	12 35	0 34	22 44	0 7	16 51	17 12	12 4	10 14	0 14			
S 20	0 12	19 56	3 33	4 21	3 24	12 13	3 46	8 32	2 36	18 2	1 3	17 50	1 16	9 46	0 31	12 35	0 34	22 45	0 7	16 51	17 13	12 2	10 16	0 14			
S 21	0n12	20 15	2 40	3 55	3 17	12 9	3 37	8 29	2 35	18 3	1 3	17 51	1 16	9 47	0 31	12 34	0 34	22 45	0 7	16 51	17 14	12 0	10 17	0 14			
M22	0 36	19 37	1 41	3 28	3 9	12 5	3 28	8 25	2 35	18 4	1 3	17 51	1 16	9 48	0 31	12 33	0 34	22 45	0 7	16 50	17 15	11 59	10 18	0 14			
T 23	0 59	18 6	0 38	2 58	2 59	12 1	3 19	8 21	2 34	18 5	1 3	17 52	1 16	9 49	0 31	12 33	0 35	22 45	0 7	16 50	17 16	11 57	10 19	0 14			
W24	1 23	15 50	0s25	2 27	2 48	11 56	3 10	8 16	2 33	18 6	1 3	17 53	1 16	9 50	0 31	12 32	0 35	22 45	0 7	16 50	17 17	11 55	10 20	0 14			
T 25	1 47	12 54	1 28	1 55	2 35	11 50	3 1	8 12	2 33	18 6	1 3	17 53	1 15	9 51	0 31	12 31	0 35	22 45	0 7	16 50	17 18	11 54	10 22	0 14			
F 26	2 10	9 27	2 26	1 24	2 22	11 44	2 52	8 7	2 32	18 7	1 2	17 54	1 15	9 53	0 31	12 31	0 35	22 45	0 7	16 51	17 19	11 52	10 23	0 15			
S 27	2 34	5 36	3 19	0 52	2 7	11 37	2 44	8 2	2 31	18 8	1 2	17 54	1 15	9 54	0 31	12 30	0 35	22 45	0 8	16 53	17 20	11 50	10 24	0 15			
S 28	2 57	1 30	4 3	0 22	1 52	11 30	2 35	7 57	2 30	18 8	1 2	17 55	1 15	9 55	0 31	12 30	0 35	22 45	0 8	16 56	17 20	11 49	10 25	0 15			
M29	3 20	2n42	4 36	0s 8	1 36	11 22	2 27	7 52	2 29	18 9	1 2	17 55	1 15	9 56	0 31	12 29	0 35	22 45	0 8	16 58	17 21	11 47	10 27	0 15			
T 30	3 44	6 51	4 57	0 35	1 26	11 14	2 19	7 46	2 28	18 9	1 2	17 56	1 15	9 57	0 31	12 28	0 35	22 45	0 8	17 2	17 22	11 45	10 28	0 15			
W31	4n 7	10n46	5s 5	1s 1	1n 5	11s 5	2n10	7s41	2n26	18n 9	1n 2	17n56	1n15	9n59	0s31	12s28	0s35	22n45	0n 8	17n 4	17n23	11s44	10n29	0s15			

ASTRODIENST EPHEMERIS for the year 1683

geocentric

APRIL 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 45	11°21'50	25°8' 7	24°R36	26°48' 4	25°R23	12°R11	13°R41	27°Y10	28°48'48	15°48' 4	12°R22	11°22'22	4°48'43	27°Y54	T 1
F 2	12 41 42	12°20'52	7°II59	24°K19	26°55	25°48' 3	12°21'10	13°21'40	27°13	28°50	15° 4	12°21'15	11°19	4°50	27°57	F 2
S 3	12 45 38	13°19'51	21° 5	24° 7	27°46	24°43	12° 9	13°38	27°16	28°52	15° 4	12°11	11°15	4°57	28° 1	S 3
S 4	12 49 35	14°18'48	4°26	24° 1	28°39	24°23	12° 8	13°37	27°20	28°54	15° 4	12° 8	11°12	5° 3	28° 5	S 4
M 5	12 53 32	15°17'43	18° 4	24°D 0	29°32	24° 2	12° 8	13°36	27°23	28°55	15° 5	12°D 8	11° 9	5°10	28° 9	M 5
T 6	12 57 28	16°16'35	2°20' 0	24° 5	0°K25	23°41	12° 7	13°35	27°26	28°57	15° 5	12° 8	11° 6	5°17	28°13	T 6
W 7	13 1 25	17°15'25	16°15	24°15	1°19	23°19	12° 7	13°34	27°30	28°59	15° 5	12°R 9	11° 3	5°23	28°16	W 7
T 8	13 5 21	18°14'13	0°14'47	24°30	2°14	22°57	12°D 7	13°34	27°33	29° 0	15° 5	12° 7	10°59	5°30	28°20	T 8
F 9	13 9 18	19°12'58	15°33	24°49	3° 9	22°35	12° 7	13°33	27°37	29° 2	15° 5	12° 4	10°56	5°37	28°24	F 9
S 10	13 13 14	20°11'41	0°28	25°13	4° 5	22°12	12° 7	13°32	27°40	29° 4	15° 6	11°58	10°53	5°43	28°28	S 10
S 11	13 17 11	21°10'22	15°22	25°42	5° 1	21°50	12° 8	13°32	27°44	29° 5	15° 6	11°49	10°50	5°50	28°32	S 11
M12	13 21 7	22° 9'01	0°18' 8	26°15	5°58	21°27	12° 9	13°32	27°47	29° 7	15° 6	11°39	10°47	5°57	28°36	M12
T 13	13 25 4	23° 7'38	14°37	26°52	6°55	21° 5	12°10	13°31	27°50	29° 8	15° 7	11°28	10°44	6° 3	28°39	T 13
W14	13 29 1	24° 6'14	28°42	27°33	7°52	20°42	12°11	13°31	27°54	29°10	15° 7	11°18	10°40	6°10	28°43	W14
T 15	13 32 57	25° 4'47	12°21'21	28°17	8°50	20°19	12°12	13°D31	27°57	29°11	15° 8	11° 9	10°37	6°17	28°47	T 15
F 16	13 36 54	26° 3'19	25°32	29° 5	9°49	19°56	12°13	13°31	28° 1	29°13	15° 8	11° 4	10°34	6°23	28°51	F 16
S 17	13 40 50	27° 1'50	8°31'17	29°56	10°48	19°34	12°15	13°31	28° 4	29°14	15° 8	11° 0	10°31	6°30	28°55	S 17
S 18	13 44 47	28° 0'18	20°40	0°Y51	11°47	19°11	12°17	13°32	28° 8	29°16	15° 9	10°59	10°28	6°36	28°59	S 18
M19	13 48 43	28°58'45	2°46	1°49	12°46	18°49	12°19	13°32	28°11	29°17	15° 9	10°D59	10°25	6°43	29° 3	M19
T 20	13 52 40	29°57'11	14°41	2°49	13°46	18°27	12°21	13°33	28°15	29°18	15°10	10°R59	10°21	6°50	29° 7	T 20
W21	13 56 36	0°55'34	26°29	3°52	14°47	18° 5	12°23	13°33	28°18	29°20	15°10	10°58	10°18	6°56	29°11	W21
T 22	14 0 33	1°53'57	8°K16	4°58	15°47	17°44	12°26	13°34	28°21	29°21	15°11	10°55	10°15	7° 3	29°14	T 22
F 23	14 4 30	2°52'17	20° 7	6° 7	16°48	17°23	12°28	13°35	28°25	29°22	15°12	10°50	10°12	7°10	29°18	F 23
S 24	14 8 26	3°50'36	2°Y 5	7°18	17°49	17° 2	12°31	13°36	28°28	29°23	15°12	10°42	10° 9	7°16	29°22	S 24
S 25	14 12 23	4°48'53	14°14	8°31	18°51	16°42	12°34	13°37	28°32	29°25	15°13	10°31	10° 5	7°23	29°26	S 25
M26	14 16 19	5°47'08	26°34	9°47	19°53	16°22	12°37	13°38	28°35	29°26	15°14	10°19	10° 2	7°30	29°30	M26
T 27	14 20 16	6°45'22	9°K 8	11° 5	20°55	16° 3	12°41	13°39	28°39	29°27	15°14	10° 5	9°59	7°36	29°34	T 27
W28	14 24 12	7°43'34	21°54	12°26	21°57	15°44	12°44	13°41	28°42	29°28	15°15	9°52	9°56	7°43	29°38	W28
T 29	14 28 9	8°41'44	4°II53	13°48	23° 0	15°26	12°48	13°42	28°45	29°29	15°16	9°40	9°53	7°50	29°42	T 29
F 30	14 32 5	9°39'53	18°II 3	15°Y13	24°K 3	15°48' 9	12°52	13°44	28°Y49	29°30	15°16	9°231	9°250	7°K56	29°Y45	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	4n30	14n16	4s57	1s25	0n49	10s56	2n 2	7s35	2n25	18n10	1n 2	17n57	1n15	10n 0	0s31	T 1
F 2	4 53	17 9	4 35	1 46	0 33	10 46	1 55	7 29	2 24	18 10	1 2	17 57	1 15	10 1	0 31	F 2
S 3	5 16	19 13	3 58	2 5	0 17	10 36	1 47	7 23	2 22	18 10	1 2	17 57	1 15	10 2	0 31	S 3
S 4	5 39	20 17	3 7	2 21	0 2	10 25	1 39	7 17	2 21	18 10	1 2	17 58	1 15	10 4	0 31	S 4
M 5	6 2	20 12	2 5	2 35	0s13	10 14	1 32	7 11	2 19	18 10	1 2	17 58	1 15	10 5	0 31	M 5
T 6	6 25	18 52	0 54	2 46	0 27	10 2	1 24	7 4	2 18	18 10	1 2	17 58	1 15	10 6	0 31	T 6
W 7	6 47	16 21	0n22	2 54	0 40	9 50	1 17	6 58	2 16	18 10	1 1	17 59	1 15	10 7	0 31	W 7
T 8	7 10	12 44	1 38	3 1	0 53	9 37	1 10	6 51	2 14	18 10	1 1	17 59	1 15	10 8	0 31	T 8
F 9	7 32	8 17	2 48	3 4	1 6	9 24	1 3	6 45	2 12	18 10	1 1	17 59	1 15	10 10	0 31	F 9
S 10	7 54	3 17	3 47	3 5	1 17	9 10	0 56	6 38	2 11	18 10	1 1	17 59	1 15	10 11	0 31	S 10
S 11	8 16	1s53	4 31	3 4	1 28	8 56	0 49	6 32	2 9	18 10	1 1	17 59	1 15	10 12	0 31	S 11
M12	8 38	6 55	4 56	3 0	1 39	8 41	0 42	6 25	2 7	18 9	1 1	17 59	1 15	10 13	0 31	M12
T 13	9 0	11 26	5 2	2 54	1 48	8 26	0 36	6 19	2 5	18 9	1 1	17 59	1 15	10 15	0 31	T 13
W14	9 22	15 12	4 49	2 46	1 57	8 11	0 29	6 12	2 2	18 9	1 1	17 59	1 15	10 16	0 31	W14
T 15	9 43	18 2	4 19	2 36	2 6	7 55	0 23	6 6	2 0	18 8	1 1	17 59	1 15	10 17	0 31	T 15
F 16	10 5	19 48	3 37	2 24	2 13	7 39	0 17	5 59	1 58	18 8	1 1	17 59	1 15	10 18	0 31	F 16
S 17	10 26	20 29	2 44	2 10	2 20	7 22	0 11	5 53	1 56	18 7	1 0	17 59	1 15	10 20	0 31	S 17
S 18	10 47	20 9	1 46	1 54	2 26	7 5	0 5	5 47	1 53	18 7	1 0	17 59	1 15	10 21	0 31	S 18
M19	11 8	18 52	0 43	1 36	2 32	6 48	0s 1	5 40	1 51	18 6	1 0	17 59	1 15	10 22	0 31	M19
T 20	11 28	16 46	0s20	1 16	2 37	6 30	0 7	5 34	1 49	18 5	1 0	17 58	1 15	10 23	0 31	T 20
W21	11 49	13 59	1 21	0 55	2 41	6 12	0 12	5 28	1 46	18 4	1 0	17 58	1 14	10 25	0 31	W21
T 22	12 9	10 38	2 19	0 32	2 45	5 53	0 18	5 22	1 44	18 4	1 0	17 58	1 14	10 26	0 31	T 22
F 23	12 29	6 51	3 11	0 8	2 48	5 34	0 23	5 17	1 41	18 3	1 0	17 58	1 14	10 27	0 31	F 23
S 24	12 49	2 46	3 56	0n18	2 50	5 15	0 28	5 11	1 38	18 2	1 0	17 57	1 14	10 28	0 31	S 24
S 25	13 9	1n29	4 30	0 45	2 52	4 56	0 33	5 6	1 36	18 1	1 0	17 57	1 14	10 29	0 31	S 25
M26	13 28	5 44	4 52	1 14	2 53	4 36	0 38	5 1	1 33	18 0	1 0	17 57	1 14	10 31	0 31	M26
T 27	13 48	9 49	5 0	1 44	2 53	4 16	0 43	4 56	1 31	17 59	0 59	17 56	1 14	10 32	0 31	T 27
W28	14 7	13 32	4 54	2 16	2 53	3 55	0 47	4 51	1 28	17 58	0 59	17 56	1 14	10 33	0 31	W28
T 29	14 25	16 41	4 32	2 48	2 52	3 35	0 52	4 47	1 25	17 57	0 59	17 55	1 14	10 34	0 31	T 29
F 30	14n44	19n 2	3s56	3n22	2s51	3s14	0s56	4s42	1n23	17n55	0n59	17n55	1n14	10n36	0s31	F 30

Julian Day Number = 2335853.5, Delta T = 21.85 sec

Ecliptic obliquity = 23°28'44", Nutation = - 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°19'08", Lahiri = 19°26'08"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1683
geocentric

MAY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	14 36 2	10♈38'00	1♉25	16♊39	25♋6	14♌R52	12♍56	13♎45	28♏52	29♐31	15♑17	9♒R25	9♓46	8♈3	29♉49	S 1
S 2	14 39 58	11°36'04	14°57	18° 8	26° 9	14♌36	13° 0	13°47	28°56	29°32	15°18	9♓21	9°43	8°10	29°53	S 2
M 3	14 43 55	12°34'07	28°40	19°39	27°13	14°20	13° 4	13°49	28°59	29°33	15°19	9°20	9°40	8°16	29°57	M 3
T 4	14 47 52	13°32'08	12♌234	21°12	28°16	14° 5	13° 9	13°51	29° 2	29°34	15°20	9°19	9°37	8°23	0♉1	T 4
W 5	14 51 48	14°30'07	26°39	22°47	29°20	13°51	13°14	13°53	29° 6	29°35	15°21	9°19	9°34	8°30	0° 5	W 5
T 6	14 55 45	15°28'04	10♎55	24°24	0♏24	13°38	13°19	13°55	29° 9	29°36	15°21	9°18	9°31	8°36	0° 8	T 6
F 7	14 59 41	16°25'59	25°20	26° 3	1°29	13°25	13°24	13°58	29°12	29°37	15°22	9°14	9°27	8°43	0°12	F 7
S 8	15 3 38	17°23'52	9♌51	27°44	2°33	13°14	13°29	14° 0	29°16	29°38	15°23	9° 7	9°24	8°50	0°16	S 8
S 9	15 7 34	18°21'44	24°21	29°27	3°38	13° 2	13°34	14° 3	29°19	29°38	15°24	8°58	9°21	8°56	0°20	S 9
M10	15 11 31	19°19'34	8♍45	1♌12	4°43	12°52	13°40	14° 5	29°22	29°39	15°25	8°47	9°18	9° 3	0°23	M10
T 11	15 15 27	20°17'22	22°56	2°59	5°48	12°43	13°45	14° 8	29°26	29°40	15°26	8°36	9°15	9°10	0°27	T 11
W12	15 19 24	21°15'09	6♌49	4°49	6°54	12°34	13°51	14°11	29°29	29°40	15°27	8°25	9°11	9°16	0°31	W12
T 13	15 23 21	22°12'55	20°20	6°40	7°59	12°26	13°57	14°14	29°32	29°41	15°28	8°16	9° 8	9°23	0°35	T 13
F 14	15 27 17	23°10'39	3♌28	8°33	9° 5	12°19	14° 3	14°17	29°35	29°42	15°29	8° 9	9° 5	9°30	0°38	F 14
S 15	15 31 14	24° 8'23	16°12	10°28	10°11	12°13	14° 9	14°20	29°39	29°42	15°30	8° 5	9° 2	9°36	0°42	S 15
S 16	15 35 10	25° 6'05	28°36	12°25	11°17	12° 7	14°15	14°23	29°42	29°43	15°31	8° 3	8°59	9°43	0°45	S 16
M17	15 39 7	26° 3'46	10♌44	14°24	12°23	12° 3	14°22	14°26	29°45	29°43	15°32	8°D 3	8°56	9°50	0°49	M17
T 18	15 43 3	27° 1'26	22°40	16°25	13°29	11°59	14°29	14°29	29°48	29°44	15°34	8°R 3	8°52	9°56	0°53	T 18
W19	15 47 0	27°59'04	4♌31	18°28	14°36	11°56	14°35	14°33	29°51	29°44	15°35	8° 3	8°49	10° 3	0°56	W19
T 20	15 50 56	28°56'42	16°20	20°32	15°42	11°54	14°42	14°36	29°54	29°45	15°36	8° 1	8°46	10°10	1° 0	T 20
F 21	15 54 53	29°54'19	28°14	22°38	16°49	11°52	14°49	14°40	29°58	29°45	15°37	7°58	8°43	10°16	1° 3	F 21
S 22	15 58 50	0♏51'55	10♏17	24°46	17°56	11°D51	14°56	14°44	0♏1	29°46	15°38	7°52	8°40	10°23	1° 7	S 22
S 23	16 2 46	1°49'30	22°32	26°55	19° 3	11°52	15° 4	14°47	0° 4	29°46	15°39	7°43	8°36	10°30	1°10	S 23
M24	16 6 43	2°47'04	5♌3	29° 4	20°10	11°52	15°11	14°51	0° 7	29°46	15°40	7°33	8°33	10°36	1°14	M24
T 25	16 10 39	3°44'37	17°51	1♏15	21°17	11°54	15°19	14°55	0°10	29°47	15°42	7°22	8°30	10°43	1°17	T 25
W26	16 14 36	4°42'09	0♏55	3°27	22°24	11°57	15°26	14°59	0°13	29°47	15°43	7°12	8°27	10°50	1°21	W26
T 27	16 18 32	5°39'40	14°15	5°39	23°32	12° 0	15°34	15° 4	0°16	29°47	15°44	7° 2	8°24	10°56	1°24	T 27
F 28	16 22 29	6°37'10	27°48	7°51	24°40	12° 4	15°42	15° 8	0°19	29°47	15°45	6°55	8°21	11° 3	1°27	F 28
S 29	16 26 25	7°34'39	11♌33	10° 3	25°47	12° 8	15°50	15°12	0°22	29°47	15°47	6°50	8°17	11°10	1°31	S 29
S 30	16 30 22	8°32'07	25°26	12°14	26°55	12°14	15°58	15°16	0°25	29°47	15°48	6°47	8°14	11°16	1°34	S 30
M31	16 34 19	9♏29'33	9♏25	14♏25	28♏3	12♌20	16♌7	15♌21	0♏27	29♌47	15♌49	6°D47	8♌11	11♌23	1♏37	M31

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	decl	decl	decl	decl	decl	decl	decl	decl	decl
S 1	15n 2	20n22	3s 6	3n57	2s49	2s53	1s 1	4s38	1n20	17n54	0n59	17n54	1n14	10n37	0s31	12s13	0s35	22n46	0n10	17n56	17n50	10s50	11n 9	0s17										
S 2	15 20	20 34	2 5	4 33	2 47	2 31	1 5	4 34	1 17	17 53	0 59	17 54	1 14	10 38	0 31	12 12	0 36	22 46	0 10	17 57	17 51	10 48	11 11	0 17										
M 3	15 38	19 33	0 56	5 10	2 44	2 10	1 9	4 31	1 15	17 52	0 59	17 53	1 14	10 39	0 31	12 12	0 36	22 46	0 10	17 57	17 52	10 46	11 12	0 17										
T 4	15 56	17 20	0n17	5 49	2 40	1 48	1 13	4 28	1 12	17 50	0 59	17 52	1 14	10 40	0 31	12 12	0 36	22 46	0 10	17 57	17 52	10 44	11 13	0 18										
W 5	16 13	14 4	1 30	6 28	2 36	1 26	1 16	4 25	1 9	17 49	0 59	17 52	1 14	10 42	0 31	12 12	0 36	22 45	0 10	17 57	17 53	10 43	11 15	0 18										
T 6	16 30	9 56	2 39	7 8	2 31	1 4	1 20	4 22	1 6	17 47	0 59	17 51	1 14	10 43	0 31	12 11	0 36	22 45	0 10	17 58	17 54	10 41	11 16	0 18										
F 7	16 47	5 11	3 38	7 48	2 26	0 41	1 23	4 20	1 4	17 46	0 58	17 50	1 14	10 44	0 31	12 11	0 36	22 45	0 10	17 59	17 55	10 39	11 17	0 18										
S 8	17 3	0 8	4 23	8 30	2 21	0 19	1 27	4 18	1 1	17 44	0 58	17 50	1 14	10 45	0 31	12 11	0 36	22 45	0 10	18 0	17 56	10 37	11 18	0 18										
S 9	17 19	4s56	4 51	9 12	2 14	0n 4	1 30	4 16	0 58	17 42	0 58	17 49	1 14	10 46	0 31	12 11	0 36	22 45	0 10	18 3	17 57	10 35	11 20	0 18										
M10	17 35	9 41	5 1	9 55	2 8	0 27	1 33	4 14	0 56	17 41	0 58	17 48	1 14	10 47	0 31	12 10	0 36	22 45	0 10	18 6	17 57	10 34	11 21	0 18										
T 11	17 51	13 50	4 52	10 38	2 1	0 50	1 36	4 13	0 53	17 39	0 58	17 47	1 13	10 49	0 31	12 10	0 36	22 45	0 10	18 9	17 58	10 32	11 22	0 18										
W12	18 6	17 8	4 25	11 22	1 53	1 14	1 39	4 12	0 50	17 37	0 58	17 46	1 13	10 50	0 31	12 10	0 36	22 45	0 10	18 11	17 59	10 30	11 23	0 18										
T 13	18 21	19 24	3 44	12 7	1 45	1 37	1 42	4 11	0 48	17 36	0 58	17 46	1 13	10 51	0 31	12 10	0 36	22 45	0 10	18 14	18 0	10 28	11 24	0 18										
F 14	18 36	20 34	2 53	12 51	1 36	2 0	1 44	4 11	0 45	17 34	0 58	17 45	1 13	10 52	0 31	12 9	0 36	22 45	0 10	18 16	18 1	10 26	11 26	0 18										
S 15	18 50	20 37	1 53	13 36	1 27	2 24	1 47	4 11	0 43	17 32	0 58	17 44	1 13	10 53	0 31	12 9	0 36	22 45	0 10	18 17	18 2	10 24	11 27	0 18										
S 16	19 4	19 39	0 50	14 21	1 18	2 48	1 49	4 11	0 40	17 30	0 58	17 43	1 13	10 54	0 31	12 9	0 36	22 45	0 11	18 17	18 3	10 23	11 28	0 19										
M17	19 18	17 48	0s14	15 6	1 9	3 11	1 51	4 12	0 38	17 28	0 57	17 42	1 13	10 55	0 31	12 9	0 36	22 45	0 11	18 17	18 3	10 21	11 29	0 19										
T 18	19 32	15 12	1 17	15 50	0 59	3 35	1 54	4 12	0 35	17 26	0 57	17 41	1 13	10 57	0 31	12 9	0 36	22 45	0 11	18 17	18 4	10 19	11 30	0 19										
W19	19 45	11 59	2 16	16 34	0 49	3 59	1 56	4 13	0 33	17 24	0 57	17 40	1 13	10 58	0 31	12 9	0 36	22 45	0 11	18 17	18 5	10 17	11 32	0 19										
T 20	19 57	8 18	3 9	17 18	0 38	4 23	1 58	4 15	0 30	17 22	0 57	17 39	1 13	10 59	0 31	12 9	0 36	22 45	0 11	18 18	18 6	10 15	11 33	0 19										
F 21	20 10	4 17	3 54	18 1	0 28	4 47	1 59	4 16	0 28	17 20	0 57	17 37	1 13	11 0	0 31	12 8	0 36	22 45	0 11	18 18	18 7	10 13	11 34	0 19										
S 22	20 22	0 3	4 29	18 43	0 17	5 11	2 1	4 18	0 25	17 17	0 57	17 36	1 13	11 1	0 31	12 8	0 36	22 44	0 11	18 20	18 8	10 12	11 35	0 19										
S 23	20 34	4n15	4 53	19 24	0 6	5 35	2 3	4 21	0 23	17 15	0 57	17 35	1 13	11 2	0 31	12 8	0 36	22 44	0 11	18 22	18 8	10 10	11 36	0 19										
M24	20 45	8 28	5 3	20 3	0n 4	5 59	2 4	4 23	0 21	17 13	0 57	17 34	1 13	11 3	0 31	12 8	0 36	22 44	0 11	18 25	18 9	10 8	11 37	0 19										
T 25	20 56	12 24	4 58	20 41	0 15	6 23	2 5	4 26	0 18	17 11	0 57	17 33	1 13	11 4	0 31	12 8	0 36	22 44	0 11	18 27	18 10	10 6	11 38	0 19										
W26	21 7	15 50	4 38	21 17	0 25	6 47	2 7	4 29	0 16	17 8	0 57	17 32	1 13	11 5	0 31	12 8	0 36	22 44	0 11	18 30	18 11	10 4	11 39	0 19										
T 27	21 17	18 32	4 2	21 52	0 35	7 11	2 8	4 32	0 14	17 6	0 57	17 30	1 13	11 6	0 31	12 8	0 36	22 44	0 11	18 33	18 12	10 2	11 41	0 20										
F 28	21 27	20 15	3 13	22 24	0 45	7 34	2 9	4 36	0 12	17 3	0 57	17 29	1 13	11 7	0 31	12 8	0 36	22 44	0 11	18 35	18 13	10 1	11 42	0 20										
S 29	21 37	20 48	2 11	22 53	0 55	7 58	2 9	4 40	0 10	17 1	0 56	17 28	1 13	11 8	0 31	12 8	0 36	22 44	0 11	18 36	18 13	9 59	11 43	0 20										
S 30	21 46	20 6	1 0	23 21	1 4	8 22	2 10	4 44	0 7	16 58	0 56	17 26	1 13	11 9	0 31	12 8	0 36	22 44	0 11	18 36	18 14	9 57	11 44	0 20										
M31	21n55	18n 9	0n14	23n46	1n12	8n46	2s11	4s48	0n 5	16n56	0n56	17n25	1n13	11n10	0s31	12s 8	0s36	22n44	0n11	18n37	18n15	9s55	11n45	0s20										

ASTRODIENST EPHEMERIS for the year 1683
geocentric

JUNE 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 38 15	10II26'58	23Ω29	16II35	29Υ11	12♂27	16Ω15	15Ω26	0♂30	29≈47	15♂51	6Ω47	8Ω 8	11♂30	1♂41	T 1
W 2	16 42 12	11°24'22	7♂37	18°44	0♂19	12°34	16°23	15°30	0°33	29°R47	15°52	6°R48	8° 5	11°36	1°44	W 2
T 3	16 46 8	12°21'45	21°47	20°51	1°27	12°43	16°32	15°35	0°36	29°47	15°53	6°48	8° 2	11°43	1°47	T 3
F 4	16 50 5	13°19'07	5♂58	22°57	2°36	12°52	16°41	15°40	0°39	29°47	15°55	6°45	7°58	11°50	1°50	F 4
S 5	16 54 1	14°16'28	20° 7	25° 1	3°44	13° 1	16°50	15°45	0°41	29°47	15°56	6°41	7°55	11°56	1°53	S 5
S 6	16 57 58	15°13'47	4♂12	27° 3	4°52	13°11	16°59	15°49	0°44	29°47	15°57	6°35	7°52	12° 3	1°56	S 6
M 7	17 1 54	16°11'06	18° 9	29° 3	6° 1	13°22	17° 8	15°54	0°47	29°47	15°59	6°28	7°49	12°10	1°59	M 7
T 8	17 5 51	17° 8'24	1♂55	1♂ 1	7°10	13°34	17°17	16° 0	0°49	29°47	16° 0	6°19	7°46	12°16	2° 2	T 8
W 9	17 9 48	18° 5'41	15°25	2°57	8°18	13°46	17°26	16° 5	0°52	29°47	16° 2	6°12	7°42	12°23	2° 5	W 9
T 10	17 13 44	19° 2'57	28°39	4°50	9°27	13°59	17°35	16°10	0°54	29°46	16° 3	6° 5	7°39	12°30	2° 8	T 10
F 11	17 17 41	20° 0'13	11♂34	6°41	10°36	14°12	17°45	16°15	0°57	29°46	16° 5	6° 1	7°36	12°36	2°11	F 11
S 12	17 21 37	20°57'29	24°10	8°30	11°45	14°26	17°54	16°21	0°59	29°46	16° 6	5°58	7°33	12°43	2°14	S 12
S 13	17 25 34	21°54'44	6≈31	10°17	12°54	14°40	18° 4	16°26	1° 2	29°45	16° 7	5°D58	7°30	12°50	2°17	S 13
M14	17 29 30	22°51'59	18°37	12° 1	14° 3	14°55	18°14	16°32	1° 4	29°45	16° 9	5°58	7°27	12°56	2°20	M14
T 15	17 33 27	23°49'13	0♂33	13°43	15°13	15°11	18°24	16°37	1° 7	29°45	16°10	6° 0	7°23	13° 3	2°22	T 15
W16	17 37 24	24°46'27	12°24	15°22	16°22	15°27	18°34	16°43	1° 9	29°44	16°12	6° 1	7°20	13°10	2°25	W16
T 17	17 41 20	25°43'41	24°15	16°59	17°31	15°44	18°44	16°48	1°11	29°44	16°13	6°R 2	7°17	13°16	2°28	T 17
F 18	17 45 17	26°40'55	6Υ10	18°34	18°41	16° 1	18°54	16°54	1°14	29°43	16°15	6° 1	7°14	13°23	2°30	F 18
S 19	17 49 13	27°38'08	18°15	20° 6	19°50	16°19	19° 4	17° 0	1°16	29°43	16°16	5°59	7°11	13°30	2°33	S 19
S 20	17 53 10	28°35'22	0♂34	21°36	21° 0	16°37	19°14	17° 6	1°18	29°42	16°18	5°56	7° 8	13°36	2°36	S 20
M21	17 57 6	29°32'36	13°10	23° 3	22°10	16°56	19°25	17°12	1°20	29°42	16°19	5°51	7° 4	13°43	2°38	M21
T 22	18 1 3	0♂29'49	26° 6	24°27	23°20	17°15	19°35	17°18	1°23	29°41	16°21	5°45	7° 1	13°50	2°41	T 22
W23	18 4 59	1°27'03	9II23	25°50	24°30	17°35	19°46	17°24	1°25	29°40	16°23	5°40	6°58	13°56	2°43	W23
T 24	18 8 56	2°24'16	23° 0	27° 9	25°39	17°55	19°56	17°30	1°27	29°40	16°24	5°35	6°55	14° 3	2°45	T 24
F 25	18 12 53	3°21'29	6♂55	28°26	26°49	18°15	20° 7	17°36	1°29	29°39	16°26	5°31	6°52	14°10	2°48	F 25
S 26	18 16 49	4°18'43	21° 4	29°40	28° 0	18°36	20°18	17°42	1°31	29°38	16°27	5°29	6°48	14°17	2°50	S 26
S 27	18 20 46	5°15'56	5Ω23	0Ω52	29°10	18°58	20°28	17°49	1°33	29°37	16°29	5°D28	6°45	14°23	2°52	S 27
M28	18 24 42	6°13'08	19°47	2° 1	0II20	19°20	20°39	17°55	1°35	29°37	16°30	5°29	6°42	14°30	2°55	M28
T 29	18 28 39	7°10'21	4♂11	3° 7	1°30	19°42	20°50	18° 1	1°37	29°36	16°32	5°30	6°39	14°37	2°57	T 29
W30	18 32 35	8♂ 7'33	18♂32	4Ω10	2II40	20♂ 5	21Ω 1	18Ω 8	1♂38	29≈35	16♂33	5Ω31	6Ω36	14♂43	2♂59	W30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22n 3	15n 6	1n28	24n 8	1n20	9n 9	2s11	4s53	0n 3	16n53	0n56	17n24	1n13	11n11	0s31	T 1
W 2	22 11	11 10	2 38	24 27	1 27	9 33	2 12	4 57	0 1	16 51	0 56	17 22	1 13	11 12	0 31	W 2
T 3	22 19	6 35	3 37	24 44	1 34	9 56	2 12	5 3	0s 1	16 48	0 56	17 21	1 13	11 13	0 31	T 3
F 4	22 26	1 40	4 24	24 57	1 40	10 19	2 12	5 8	0 3	16 45	0 56	17 19	1 12	11 14	0 31	F 4
S 5	22 33	3s20	4 54	25 8	1 45	10 42	2 13	5 13	0 5	16 42	0 56	17 18	1 12	11 15	0 31	S 5
S 6	22 40	8 8	5 6	25 17	1 50	11 5	2 13	5 19	0 7	16 40	0 56	17 16	1 12	11 16	0 31	S 6
M 7	22 46	12 27	5 0	25 22	1 54	11 28	2 13	5 25	0 9	16 37	0 56	17 15	1 12	11 17	0 31	M 7
T 8	22 51	16 3	4 37	25 25	1 57	11 50	2 12	5 31	0 10	16 34	0 56	17 13	1 12	11 18	0 31	T 8
W 9	22 57	18 44	3 58	25 26	1 59	12 13	2 12	5 38	0 12	16 31	0 56	17 12	1 12	11 19	0 31	W 9
T 10	23 2	20 21	3 8	25 24	2 1	12 35	2 12	5 44	0 14	16 28	0 56	17 10	1 12	11 20	0 31	T 10
F 11	23 6	20 51	2 8	25 20	2 2	12 57	2 11	5 51	0 16	16 25	0 56	17 8	1 12	11 20	0 31	F 11
S 12	23 10	20 16	1 3	25 14	2 2	13 18	2 11	5 58	0 18	16 22	0 56	17 7	1 12	11 21	0 31	S 12
S 13	23 14	18 43	0s 3	25 5	2 1	13 40	2 10	6 5	0 19	16 19	0 55	17 5	1 12	11 22	0 31	S 13
M14	23 17	16 21	1 8	24 55	2 0	14 1	2 10	6 13	0 21	16 16	0 55	17 3	1 12	11 23	0 31	M14
T 15	23 20	13 19	2 10	24 43	1 58	14 22	2 9	6 20	0 23	16 13	0 55	17 2	1 12	11 24	0 31	T 15
W16	23 23	9 46	3 5	24 30	1 55	14 43	2 8	6 28	0 24	16 10	0 55	17 0	1 12	11 25	0 31	W16
T 17	23 25	5 50	3 52	24 14	1 51	15 3	2 7	6 36	0 26	16 7	0 55	16 58	1 12	11 25	0 31	T 17
F 18	23 26	1 41	4 30	23 58	1 47	15 24	2 6	6 44	0 28	16 3	0 55	16 56	1 12	11 26	0 31	F 18
S 19	23 27	2n36	4 56	23 40	1 43	15 43	2 5	6 52	0 29	16 0	0 55	16 55	1 12	11 27	0 31	S 19
S 20	23 28	6 51	5 10	23 21	1 37	16 3	2 4	7 1	0 31	15 57	0 55	16 53	1 12	11 28	0 31	S 20
M21	23 29	10 55	5 9	23 0	1 31	16 22	2 2	7 9	0 32	15 54	0 55	16 51	1 12	11 28	0 31	M21
T 22	23 29	14 35	4 52	22 39	1 25	16 41	2 1	7 18	0 34	15 50	0 55	16 49	1 12	11 29	0 31	T 22
W23	23 28	17 37	4 19	22 17	1 18	17 0	2 0	7 27	0 35	15 47	0 55	16 47	1 12	11 30	0 31	W23
T 24	23 27	19 47	3 31	21 54	1 10	17 18	1 58	7 36	0 37	15 44	0 55	16 45	1 12	11 31	0 31	T 24
F 25	23 26	20 48	2 30	21 31	1 2	17 35	1 56	7 45	0 38	15 40	0 55	16 44	1 12	11 31	0 31	F 25
S 26	23 25	20 32	1 18	21 7	0 53	17 53	1 55	7 55	0 39	15 37	0 55	16 42	1 12	11 32	0 31	S 26
S 27	23 22	18 57	0 0	20 42	0 44	18 10	1 53	8 4	0 41	15 33	0 55	16 40	1 12	11 33	0 31	S 27
M28	23 20	16 8	1n18	20 17	0 34	18 26	1 51	8 14	0 42	15 30	0 55	16 38	1 12	11 33	0 31	M28
T 29	23 17	12 20	2 31	19 52	0 23	18 42	1 49	8 23	0 43	15 26	0 55	16 36	1 12	11 34	0 31	T 29
W30	23n14	7n50	3n35	19n27	0n13	18n58	1s48	8s33	0s45	15n23	0n55	16n34	1n12	11n35	0s31	W30

Julian Day Number = 2335914.5, Delta T = 21.76 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'16, Lahiri = 19°26'16Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1683
geocentric

JULY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 36 32	9 ⁵⁵ 4'45	2 ⁴² 47	5 ¹⁰ 10	3 ¹¹ 51	20 ⁴² 28	21 ¹⁰ 13	18 ¹⁰ 14	1 ¹⁸ 40	29 ⁰ R34	16 ⁵⁵ 35	5 ⁰ R32	6 ¹⁰ 33	14 ¹⁵ 50	3 ¹⁸ 1	T 1
F 2	18 40 28	10 ⁰ 1'56	16 ⁰ 54	6 ⁰ 6	5 ⁰ 1	20 ⁵ 52	21 ² 24	18 ² 21	1 ⁴ 2	29 ²² 33	16 ³ 37	5 ¹⁰ 32	6 ² 29	14 ⁵ 57	3 ⁰ 3	F 2
S 3	18 44 25	10 ⁵ 59'07	0 ¹¹ 51	7 ⁰ 0	6 ⁰ 12	21 ¹ 16	21 ³ 35	18 ³ 27	1 ⁴ 44	29 ³ 32	16 ³ 38	5 ¹ 31	6 ² 26	15 ⁰ 3	3 ⁰ 5	S 3
S 4	18 48 22	11 ⁵ 56'19	14 ³ 37	7 ⁵ 50	7 ² 22	21 ⁴ 40	21 ⁴ 46	18 ³ 34	1 ⁴ 45	29 ³ 31	16 ⁴ 40	5 ² 29	6 ² 23	15 ¹ 10	3 ⁰ 7	S 4
M 5	18 52 18	12 ⁵ 53'30	28 ¹ 10	8 ³ 37	8 ³ 33	22 ⁰ 5	21 ⁵ 58	18 ⁴ 41	1 ⁴ 47	29 ³ 30	16 ⁴ 41	5 ² 26	6 ² 20	15 ¹ 17	3 ⁰ 9	M 5
T 6	18 56 15	13 ⁵ 50'41	11 ¹ 30	9 ² 20	9 ⁴ 44	22 ³ 30	22 ⁰ 9	18 ⁴ 47	1 ⁴ 48	29 ² 29	16 ⁴ 43	5 ² 23	6 ¹ 17	15 ² 23	3 ¹ 0	T 6
W 7	19 0 11	14 ⁴ 47'52	24 ³ 36	9 ⁵ 59	10 ⁵ 54	22 ⁵ 56	22 ² 21	18 ⁵ 54	1 ⁵ 50	29 ² 28	16 ⁴ 44	5 ² 20	6 ¹ 14	15 ³ 30	3 ¹ 2	W 7
T 8	19 4 8	15 ⁴ 45'04	7 ¹ 38	10 ³ 34	12 ⁰ 5	23 ² 22	22 ³ 32	19 ⁰ 1	1 ⁵ 51	29 ² 27	16 ⁴ 46	5 ¹ 17	6 ¹ 10	15 ³ 37	3 ¹ 4	T 8
F 9	19 8 4	16 ⁴ 42'15	20 ⁰ 5	11 ⁰ 6	13 ¹ 16	23 ⁴ 48	22 ⁴ 44	19 ⁰ 8	1 ⁵ 53	29 ² 26	16 ⁴ 48	5 ¹ 16	6 ⁰ 7	15 ⁴ 43	3 ¹ 6	F 9
S 10	19 12 1	17 ⁴ 39'27	2 ²² 29	11 ³ 33	14 ² 27	24 ⁴ 14	22 ⁵ 56	19 ¹ 15	1 ⁵ 54	29 ² 25	16 ⁴ 49	5 ⁰ D15	6 ⁰ 4	15 ⁵ 50	3 ¹ 7	S 10
S 11	19 15 57	18 ⁴ 36'39	14 ⁴ 41	11 ⁵ 56	15 ³ 38	24 ⁴ 41	23 ⁰ 7	19 ² 22	1 ⁵ 56	29 ² 24	16 ⁵ 51	5 ⁰ 15	6 ⁰ 1	15 ⁵ 57	3 ¹ 9	S 11
M 12	19 19 54	19 ⁴ 33'52	26 ⁴ 42	12 ⁰ 14	16 ⁴ 49	25 ⁰ 8	23 ¹ 19	19 ² 29	1 ⁵ 57	29 ² 23	16 ⁵ 52	5 ⁰ 16	5 ⁰ 58	16 ⁰ 3	3 ² 0	M 12
T 13	19 23 51	20 ⁴ 31'06	8 ¹ 37	12 ² 28	18 ⁰ 0	25 ² 36	23 ³ 31	19 ³ 36	1 ⁵ 58	29 ² 22	16 ⁵ 54	5 ⁰ 18	5 ⁰ 54	16 ¹ 10	3 ² 2	T 13
W 14	19 27 47	21 ⁴ 28'19	20 ² 27	12 ³ 37	19 ¹ 11	26 ⁰ 4	23 ⁴ 3	19 ⁴ 3	1 ⁵ 59	29 ² 20	16 ⁵ 56	5 ⁰ 19	5 ⁰ 51	16 ¹ 17	3 ² 3	W 14
T 15	19 31 44	22 ⁴ 25'34	2 ² 18	12 ⁴ R41	20 ² 22	26 ² 32	23 ⁵ 55	19 ⁵ 0	2 ⁰ 0	29 ¹ 19	16 ⁵ 57	5 ⁰ 20	5 ⁰ 48	16 ² 23	3 ² 4	T 15
F 16	19 35 40	23 ⁴ 22'49	14 ⁴ 13	12 ⁴ 41	21 ² 34	27 ⁰ 0	24 ⁰ 7	19 ⁵ 7	2 ⁰ 2	29 ¹ 18	16 ⁵ 59	5 ⁰ 21	5 ⁰ 45	16 ² 30	3 ² 6	F 16
S 17	19 39 37	24 ⁴ 20'06	26 ⁴ 17	12 ⁵ 35	22 ² 45	27 ² 29	24 ¹ 19	20 ⁰ 4	2 ⁰ 3	29 ¹ 17	17 ⁰ 0	5 ⁰ R21	5 ⁰ 42	16 ³ 37	3 ² 7	S 17
S 18	19 43 33	25 ⁴ 17'23	8 ² 36	12 ⁵ 25	23 ² 56	27 ⁵ 58	24 ² 31	20 ¹ 11	2 ⁰ 4	29 ¹ 15	17 ⁰ 2	5 ⁰ 20	5 ⁰ 39	16 ³ 43	3 ² 8	S 18
M 19	19 47 30	26 ⁴ 14'41	21 ¹ 11	12 ⁰ 9	25 ⁰ 8	28 ² 28	24 ³ 43	20 ¹ 18	2 ⁰ 5	29 ¹ 14	17 ⁰ 3	5 ⁰ 20	5 ⁰ 35	16 ³ 50	3 ² 9	M 19
T 20	19 51 26	27 ⁴ 11'59	4 ² 11	11 ⁴ 49	26 ¹ 19	28 ⁵ 57	24 ⁵ 6	20 ² 26	2 ⁰ 6	29 ¹ 13	17 ⁰ 5	5 ⁰ 19	5 ⁰ 32	16 ⁴ 57	3 ³ 0	T 20
W 21	19 55 23	28 ⁴ 9'19	17 ³ 30	11 ⁵ 25	27 ² 31	29 ² 27	25 ⁰ 8	20 ³ 33	2 ⁰ 6	29 ¹ 11	17 ⁰ 7	5 ⁰ 18	5 ⁰ 29	17 ⁰ 3	3 ³ 1	W 21
T 22	19 59 20	29 ⁴ 6'40	1 ⁵ 15	10 ⁵ 55	28 ⁴ 43	29 ⁵ 57	25 ² 20	20 ⁴ 40	2 ⁰ 7	29 ¹ 10	17 ⁰ 8	5 ⁰ 17	5 ⁰ 26	17 ¹ 10	3 ³ 2	T 22
F 23	20 3 16	0 ⁵ 4'02	15 ⁵ 24	10 ⁵ 22	29 ⁵ 54	0 ¹¹ 28	25 ² 32	20 ⁴ 47	2 ⁰ 8	29 ⁰ 9	17 ¹ 10	5 ⁰ 17	5 ⁰ 23	17 ¹ 17	3 ³ 3	F 23
S 24	20 7 13	1 ⁰ 1'24	29 ⁵ 52	9 ⁴ 46	1 ¹⁵ 6	0 ⁵ 59	25 ² 45	20 ⁵ 55	2 ⁰ 9	29 ⁰ 7	17 ¹ 11	5 ⁰ D16	5 ⁰ 20	17 ² 23	3 ³ 4	S 24
S 25	20 11 9	1 ⁵ 58'47	14 ⁶ 33	9 ⁰ 6	2 ¹ 18	1 ³ 30	25 ² 57	21 ⁰ 2	2 ⁰ 9	29 ⁰ 6	17 ¹ 13	5 ⁰ 17	5 ⁰ 16	17 ² 30	3 ³ 5	S 25
M 26	20 15 6	2 ⁵ 56'11	29 ⁶ 22	8 ² 24	3 ³ 30	2 ⁰ 1	26 ¹ 10	21 ¹ 10	2 ⁰ 10	29 ⁰ 5	17 ¹ 14	5 ⁰ 17	5 ⁰ 13	17 ³ 37	3 ³ 6	M 26
T 27	20 19 2	3 ⁵ 53'35	14 ⁷ 11	7 ⁴ 40	4 ⁴ 42	2 ³ 33	26 ² 22	21 ¹ 17	2 ⁰ 11	29 ⁰ 3	17 ¹ 16	5 ⁰ 17	5 ⁰ 10	17 ⁴ 44	3 ³ 6	T 27
W 28	20 22 59	4 ⁵ 51'01	28 ⁶ 53	6 ⁵ 54	5 ⁵ 54	3 ⁰ 4	26 ³ 35	21 ² 24	2 ⁰ 11	29 ⁰ 2	17 ¹ 17	5 ⁰ R17	5 ⁰ 7	17 ⁵ 50	3 ³ 7	W 28
T 29	20 26 55	5 ⁴ 48'26	13 ⁷ 23	6 ⁰ 9	7 ⁰ 6	3 ³ 36	26 ⁴ 47	21 ³ 32	2 ⁰ 12	29 ⁰ 0	17 ¹ 19	5 ⁰ 17	5 ⁰ 4	17 ⁵ 57	3 ³ 8	T 29
F 30	20 30 52	6 ⁴ 45'53	27 ⁶ 36	5 ⁵ 24	8 ¹ 18	4 ⁰ 9	27 ⁰ 0	21 ³ 39	2 ⁰ 12	28 ⁵ 59	17 ² 20	5 ⁰ 17	5 ⁰ 0	18 ⁰ 4	3 ³ 8	F 30
S 31	20 34 49	7 ⁴ 43'20	11 ⁷ 30	4 ⁵ 40	9 ⁵ 30	4 ¹¹ 41	27 ¹ 12	21 ⁴ 47	2 ⁰ 12	28 ⁶ 57	17 ² 22	5 ⁰ D17	4 ⁵ 57	18 ¹ 10	3 ³ 9	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	lat	lat
T 1	23n10	2n56	4n25	19n 2	0n 1	19n13	1s46	8s43	0s46	15n19	0n55	16n32	1n12	11n35	0s31	12s13	0s37	22n40	0n13	18n55	18n40	8s56	12n11	0s23
F 2	23 6	2s 4	4 58	18 37	0s10	19 28	1 44	8 53	0 47	15 15	0 55	16 30	1 12	11 36	0 31	12 14	0 37	22 40	0 13	18 55	18 41	8 54	12 11	0 23
S 3	23 1	6 53	5 13	18 11	0 23	19 43	1 42	9 3	0 49	15 12	0 55	16 28	1 12	11 36	0 31	12 14	0 37	22 40	0 13	18 55	18 42	8 52	12 12	0 23
S 4	22 57	11 18	5 10	17 47	0 35	19 57	1 39	9 14	0 50	15 8	0 55	16 26	1 12	11 37	0 31	12 15	0 37	22 40	0 13	18 56	18 42	8 50	12 12	0 23
M 5	22 51	15 4	4 50	17 22	0 48	20 10	1 37	9 24	0 51	15 4	0 55	16 24	1 12	11 37	0 31	12 15	0 37	22 39	0 14	18 57	18 43	8 48	12 13	0 23
T 6	22 45	18 0	4 14	16 58	1 1	20 23	1 35	9 35	0 52	15 0	0 54	16 22	1 12	11 38	0 31	12 15	0 37	22 39	0 14	18 57	18 44	8 46	12 13	0 23
W 7	22 39	19 57	3 26	16 35	1 15	20 35	1 33	9 45	0 53	14 57	0 54	16 19	1 12	11 38	0 31	12 16	0 37	22 39	0 14	18 58	18 45	8 44	12 14	0 24
T 8	22 33	20 49	2 27	16 12	1 28	20 47	1 30	9 56	0 54	14 53	0 54	16 17	1 12	11 39	0 31	12 16	0 38	22 39	0 14	18 59	18 46	8 42	12 14	0 24
F 9	22 26	20 36	1 23	15 50	1 42	20 58	1 28	10 7	0 56	14 49	0 54	16 15	1 12	11 39	0 31	12 16	0 38	22 39	0 14	18 59	18 46	8 40	12 15	0 24
S 10	22 19	19 23	0 15	15 29	1 56	21 9	1 26	10 17	0 57	14 45	0 54	16 13	1 12	11 40	0 31	12 17	0 38	22 39	0 14	18 59	18 47	8 38	12 15	0 24
S 11	22 11	17 17	0s52	15 9	2 11	21 19	1 23	10 28	0 58	14 41	0 54	16 11	1 12	11 40	0 31	12 17	0 38	22 39	0 14	18 59	18 48	8 36	12 16	0 24
M12	22 3 14	27 1 56	14 50	2 25	21 29	1 21	10 39	0 59	14 37	0 54	16 9	1 12	11 41	0 31	12 18	0 38	22 39	0 14	18 59	18 49	8 34	12 16	0 24	
T 13	21 55	11 3	2 54	14 33	2 39	21 38	1 18	10 50	1 0	14 33	0 54	16 6	1 12	11 41	0 31	12 18	0 38	22 38	0 14	18 59	18 50	8 32	12 17	0 24
W14	21 46	7 14	3 45	14 17	2 53	21 47	1 16	11 2	1 1	14 29	0 54	16 4	1 12	11 42	0 31	12 19	0 38	22 38	0 14	18 58	18 50	8 30	12 17	0 24
T 15	21 37	3 9	4 26	14 2	3 7	21 55	1 13	11 13	1 2	14 25	0 54	16 2	1 12	11 42	0 31	12 19	0 38	22 38	0 14	18 58	18 51	8 28	12 17	0 24
F 16	21 27	1n 4	4 56	13 49	3 21	22 2	1 10	11 24	1 3	14 21	0 54	16 0	1 12	11 42	0 31	12 20	0 38	22 38	0 14	18 58	18 52	8 26	12 18	0 24
S 17	21 17	5 18	5 13	13 38	3 34	22 9	1 8	11 35	1 4	14 17	0 54	15 58	1 12	11 43	0 32	12 20	0 38	22 38	0 14	18 58	18 53	8 24	12 18	0 25
S 18	21 7	9 23	5 16	13 29	3 47	22 16	1 5	11 47	1 5	14 13	0 54	15 55	1 12	11 43	0 32	12 20	0 38	22 38	0 14	18 58	18 53	8 22	12 18	0 25
M19	20 56	13 11	5 5	13 21	3 59	22 21	1 2	12 58	1 6	14 9	0 54	15 53	1 12	11 43	0 32	12 21	0 38	22 38	0 14	18 58	18 54	8 20	12 19	0 25
T 20	20 45	16 27	4 38	13 16	4 10	22 26	0 59	12 10	1 7	14 5	0 54	15 51	1 12	11 44	0 32	12 21	0 38	22 37	0 14	18 58	18 55	8 18	12 19	0 25
W21	20 34	18 59	3 55	13 13	4 20	22 31	0 57	12 21	1 8	14 1	0 54	15 48	1 12	11 44	0 32	12 22	0 38	22 37	0 14	18 59	18 56	8 16	12 19	0 25
T 22	20 22	20 31	2 58	13 12	4 30	22 34	0 54	12 33	1 8	13 57	0 54	15 46	1 12	11 44	0 32	12 22	0 38	22 37	0 15	18 59	18 57	8 14	12 19	0 25
F 23	20 10	20 48	1 48	13 13	4 38	22 38	0 51	12 44	1 9	13 53	0 54	15 44	1 12	11 44	0 32	12 23	0 38	22 37	0 15	18 59	18 57	8 12	12 20	0 25
S 24	19 58	19 43	0 30	13 16	4 44	22 40	0 48	12 56	1 10	13 49	0 54	15 42	1 12	11 45	0 32	12 23	0 38	22 37	0 15	18 59	18 58	8 10	12 20	0 25
S 25	19 45	17 19	0n51	13 21	4 50	22 42	0 45	13 7	1 11	13 44	0 54	15 39	1 12	11 45	0 32	12 24	0 38	22 37	0 15	18 59	18 59	8 8	12 20	0 25
M26	19 32	13 44	2 10	13 28	4 53	22 43	0 43	13 19	1 12	13 40	0 54	15 37	1 12	11 45	0 32	12 24	0 38	22 37	0 15	18 59	19 0	8 6	12 20	0 26
T 27	19 19	9 18	3 20	13 38	4 55	22 44	0 40	13 31	1 13	13 36	0 54	15 34	1 13	11 45	0 32	12 25	0 38	22 36	0 15	18 59	19 0	8 4	12 20	0 26
W28	19 5	4 21	4 16	13 49	4 55	22 44	0 37	13 42	1 13	13 32	0 54	15 32	1 13	11 45	0 32	12 25	0 38	22 36	0 15	18 59	19 1	8 2	12 20	0 26
T 29	18 51	0s46	4 55	14 1	4 54	22 43	0 34	13 54	1 14	13 27	0 54	15 30	1 13	11 46	0 32	12 26	0 38	22 36	0 15	18 59	19 2	8 0	12 20	0 26
F 30	18 37	5 44	5 15	14 15	4 50	22 42	0 31	14 6	1 15	13 23	0 54	15 27	1 13	11 46	0 32	12 27	0 38	22 36	0 15	18 59	19 3	7 58	12 20	0 26
S 31	18n22	10s18	5n16	14n31	4s45	22n40	0s28	14s18	1s16	13n19	0n54	15n25	1n13	11n46	0s32	12s27	0s38	22n36	0n15	18n59	19n 4	7s56	12n21	0s26

ASTRODIENST EPHEMERIS for the year 1683

geocentric

AUGUST 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 45	8♌40'48	25♍6	3°R59	10♎42	5♏14	27♏25	21♐54	2♑13	28°R56	17♒23	5♓17	4♓54	18♈17	3♉39	S 1
M 2	20 42 42	9°38'16	8♌24	3♌20	11°54	5°47	27°38	22°2	2°13	28°54	17°25	5°17	4°51	18°24	3°39	M 2
T 3	20 46 38	10°35'46	21°24	2°46	13°6	6°20	27°51	22°9	2°13	28°53	17°26	5°18	4°48	18°30	3°40	T 3
W 4	20 50 35	11°33'16	4♌9	2°16	14°19	6°54	28°3	22°17	2°14	28°51	17°28	5°18	4°45	18°37	3°40	W 4
T 5	20 54 31	12°30'47	16°41	1°51	15°31	7°28	28°16	22°24	2°14	28°50	17°29	5°19	4°41	18°44	3°40	T 5
F 6	20 58 28	13°28'20	29°1	1°31	16°43	8°2	28°29	22°32	2°14	28°48	17°31	5°19	4°38	18°50	3°40	F 6
S 7	21 2 24	14°25'53	11♌12	1°18	17°56	8°36	28°42	22°40	2°R14	28°46	17°32	5°R19	4°35	18°57	3°R40	S 7
S 8	21 6 21	15°23'27	23°14	1°D12	19°8	9°10	28°54	22°47	2°14	28°45	17°34	5°19	4°32	19°4	3°40	S 8
M 9	21 10 18	16°21'03	5♌9	1°12	20°21	9°44	29°7	22°55	2°14	28°43	17°35	5°18	4°29	19°10	3°40	M 9
T 10	21 14 14	17°18'40	17°1	1°20	21°34	10°19	29°20	23°2	2°14	28°42	17°37	5°16	4°26	19°17	3°40	T 10
W11	21 18 11	18°16'18	28°51	1°34	22°46	10°54	29°33	23°10	2°13	28°40	17°38	5°14	4°22	19°24	3°40	W11
T 12	21 22 7	19°13'58	10♏42	1°56	23°59	11°29	29°46	23°18	2°13	28°38	17°39	5°12	4°19	19°30	3°40	T 12
F 13	21 26 4	20°11'39	22°37	2°25	25°12	12°5	29°59	23°25	2°13	28°37	17°41	5°11	4°16	19°37	3°39	F 13
S 14	21 30 0	21°9'22	4♌41	3°2	26°25	12°40	0♐12	23°33	2°13	28°35	17°42	5°9	4°13	19°44	3°39	S 14
S 15	21 33 57	22°7'07	16°57	3°46	27°38	13°16	0°25	23°41	2°12	28°34	17°43	5°D8	4°10	19°50	3°39	S 15
M16	21 37 53	23°4'53	29°30	4°37	28°51	13°52	0°38	23°48	2°12	28°32	17°45	5°9	4°6	19°57	3°38	M16
T 17	21 41 50	24°2'41	12♐23	5°35	0♌4	14°28	0°51	23°56	2°11	28°30	17°46	5°9	4°3	20°4	3°38	T 17
W18	21 45 47	25°0'30	25°39	6°39	1°17	15°4	1°4	24°4	2°11	28°29	17°47	5°11	4°0	20°11	3°37	W18
T 19	21 49 43	25°58'22	9♎23	7°50	2°30	15°41	1°17	24°11	2°10	28°27	17°49	5°12	3°57	20°17	3°36	T 19
F 20	21 53 40	26°56'15	23°32	9°6	3°43	16°17	1°30	24°19	2°10	28°25	17°50	5°13	3°54	20°24	3°36	F 20
S 21	21 57 36	27°54'10	8♌7	10°29	4°56	16°54	1°43	24°27	2°9	28°24	17°51	5°R13	3°51	20°31	3°35	S 21
S 22	22 1 33	28°52'06	23°1	11°56	6°9	17°31	1°56	24°34	2°9	28°22	17°53	5°12	3°47	20°37	3°34	S 22
M23	22 5 29	29°50'04	8♏8	13°29	7°23	18°8	2°9	24°42	2°8	28°20	17°54	5°10	3°44	20°44	3°33	M23
T 24	22 9 26	0♐48'04	23°17	15°5	8°36	18°46	2°22	24°49	2°7	28°19	17°55	5°8	3°41	20°51	3°32	T 24
W25	22 13 22	1°46'05	8♌20	16°46	9°49	19°23	2°35	24°57	2°6	28°17	17°56	5°4	3°38	20°57	3°31	W25
T 26	22 17 19	2°44'07	23°8	18°30	11°3	20°1	2°48	25°5	2°5	28°15	17°58	5°0	3°35	21°4	3°30	T 26
F 27	22 21 16	3°42'11	7♏34	20°17	12°16	20°39	3°1	25°12	2°4	28°14	17°59	4°57	3°31	21°11	3°29	F 27
S 28	22 25 12	4°40'16	21°36	22°6	13°30	21°17	3°14	25°20	2°3	28°12	18°0	4°55	3°28	21°17	3°28	S 28
S 29	22 29 9	5°38'22	5♌12	23°57	14°43	21°55	3°27	25°27	2°2	28°11	18°1	4°D55	3°25	21°24	3°27	S 29
M30	22 33 5	6°36'30	18°23	25°50	15°57	22°33	3°40	25°35	2°1	28°9	18°2	4°55	3°22	21°31	3°26	M30
T 31	22 37 2	7♏34'40	1♌13	27♏45	17♏11	23♏12	3♐53	25♏43	2♑0	28°8	18°3	4♓57	3♓19	21♈37	3♉24	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	18n 7	14s14	4n59	14n47	4s38	22n37	0s25	14s29	1s17	13n14	0n54	15n23	1n13	11n46	0s32	12s28
M 2	17 52	17 22	4 26	15 4	4 29	22 34	0 23	14 41	1 17	13 10	0 54	15 20	1 13	11 46	0 32	12 28
T 3	17 37	19 32	3 40	15 22	4 19	22 30	0 20	14 53	1 18	13 6	0 54	15 18	1 13	11 46	0 32	12 29
W 4	17 21	20 40	2 44	15 40	4 8	22 26	0 17	15 5	1 19	13 1	0 54	15 15	1 13	11 46	0 32	12 29
T 5	17 5	20 45	1 42	15 58	3 55	22 21	0 14	15 16	1 19	12 57	0 54	15 13	1 13	11 46	0 32	12 30
F 6	16 48	19 49	0 35	16 16	3 41	22 15	0 11	15 28	1 20	12 52	0 54	15 10	1 13	11 46	0 32	12 30
S 7	16 32	17 58	0s33	16 33	3 26	22 8	0 8	15 40	1 21	12 48	0 54	15 8	1 13	11 46	0 32	12 31
S 8	16 15	15 20	1 38	16 50	3 10	22 1	0 5	15 51	1 21	12 43	0 54	15 6	1 13	11 46	0 32	12 32
M 9	15 58	12 5	2 38	17 6	2 54	21 53	0 3	16 3	1 22	12 39	0 54	15 3	1 13	11 46	0 32	12 32
T 10	15 40	8 22	3 31	17 21	2 37	21 45	0n 0	16 15	1 23	12 34	0 54	15 1	1 13	11 46	0 32	12 33
W11	15 23	4 21	4 15	17 34	2 20	21 36	0 3	16 26	1 23	12 30	0 54	14 58	1 13	11 46	0 32	12 33
T 12	15 5	0 10	4 48	17 46	2 2	21 26	0 6	16 38	1 24	12 25	0 55	14 56	1 13	11 46	0 32	12 34
F 13	14 47	4n 2	5 8	17 57	1 45	21 16	0 8	16 49	1 24	12 21	0 55	14 53	1 13	11 46	0 32	12 34
S 14	14 28	8 8	5 16	18 5	1 28	21 5	0 11	17 1	1 25	12 16	0 55	14 51	1 13	11 46	0 32	12 35
S 15	14 10	11 59	5 9	18 11	1 11	20 54	0 14	17 12	1 25	12 12	0 55	14 48	1 14	11 45	0 32	12 36
M16	13 51	15 23	4 48	18 16	0 55	20 42	0 16	17 24	1 26	12 7	0 55	14 46	1 14	11 45	0 32	12 36
T 17	13 32	18 9	4 12	18 17	0 38	20 29	0 19	17 35	1 27	12 3	0 55	14 43	1 14	11 45	0 32	12 37
W18	13 12	20 3	3 21	18 16	0 23	20 16	0 22	17 46	1 27	11 58	0 55	14 41	1 14	11 45	0 32	12 37
T 19	12 53	20 51	2 18	18 13	0 8	20 2	0 24	17 57	1 28	11 53	0 55	14 38	1 14	11 45	0 32	12 38
F 20	12 33	20 22	1 4	18 6	0n 6	19 47	0 27	18 9	1 28	11 49	0 55	14 36	1 14	11 44	0 32	12 38
S 21	12 13	18 31	0n16	17 57	0 19	19 32	0 29	18 20	1 29	11 44	0 55	14 34	1 14	11 44	0 32	12 39
S 22	11 53	15 23	1 36	17 45	0 32	19 17	0 32	18 31	1 29	11 40	0 55	14 31	1 14	11 44	0 32	12 40
M23	11 33	11 11	2 51	17 30	0 43	19 1	0 34	18 42	1 29	11 35	0 55	14 29	1 14	11 44	0 32	12 40
T 24	11 12	6 15	3 54	17 12	0 54	18 44	0 37	18 52	1 30	11 30	0 55	14 26	1 14	11 43	0 32	12 41
W25	10 52	0 59	4 40	16 51	1 4	18 27	0 39	19 3	1 30	11 26	0 55	14 24	1 14	11 43	0 32	12 41
T 26	10 31	4s15	5 7	16 27	1 12	18 9	0 41	19 14	1 31	11 21	0 55	14 21	1 14	11 43	0 32	12 42
F 27	10 10	9 7	5 13	16 1	1 20	17 51	0 44	19 24	1 31	11 16	0 55	14 19	1 15	11 42	0 32	12 43
S 28	9 49	13 21	5 0	15 32	1 27	17 32	0 46	19 35	1 32	11 12	0 55	14 16	1 15	11 42	0 32	12 43
S 29	9 28	16 45	4 31	15 0	1 32	17 12	0 48	19 45	1 32	11 7	0 55	14 14	1 15	11 42	0 32	12 44
M30	9 6	19 11	3 48	14 27	1 37	16 53	0 50	19 56	1 32	11 2	0 55	14 11	1 15	11 41	0 32	12 44
T 31	8n44	20s34	2n54	13n51	1n41	16n32	0n52	20s 6	1s33	10n58	0n55	14n 9	1n15	11n41	0s32	12s45

Julian Day Number = 2335975.5, Delta T = 21.67 sec
 Ecliptic obliquity = 23°28'44", Nutation = - 0°00'13", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°19'24", Lahiri = 19°26'25"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1683
geocentric

SEPTEMBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 40 58	8♍32'51	13♌45	29♏40	18♏24	23♍50	4♍6	25♏50	1°R59	28°R 6	18♌4	4♏58	3♏16	21♋44	3°R23	W 1
T 2	22 44 55	9°31'03	26° 3	1♍35	19°38	24°29	4°19	25°58	1♌58	28°≈ 4	18° 5	5° 0	3°12	21°51	3♌22	T 2
F 3	22 48 51	10°29'17	8≈10	3°31	20°52	25° 8	4°32	26° 5	1°57	28° 3	18° 7	5°R 0	3° 9	21°58	3°20	F 3
S 4	22 52 48	11°27'33	20° 9	5°27	22° 6	25°47	4°45	26°13	1°55	28° 1	18° 8	4°59	3° 6	22° 4	3°19	S 4
S 5	22 56 45	12°25'50	2♋3	7°22	23°20	26°26	4°58	26°20	1°54	27°59	18° 9	4°56	3° 3	22°11	3°17	S 5
M 6	23 0 41	13°24'09	13°55	9°17	24°33	27° 6	5°11	26°27	1°53	27°58	18°10	4°51	3° 0	22°18	3°16	M 6
T 7	23 4 38	14°22'30	25°45	11°12	25°47	27°45	5°24	26°35	1°51	27°56	18°11	4°45	2°57	22°24	3°14	T 7
W 8	23 8 34	15°20'53	7♍37	13° 6	27° 1	28°25	5°37	26°42	1°50	27°55	18°12	4°37	2°53	22°31	3°12	W 8
T 9	23 12 31	16°19'18	19°31	14°59	28°15	29° 5	5°50	26°50	1°48	27°53	18°13	4°29	2°50	22°38	3°10	T 9
F 10	23 16 27	17°17'44	1♌29	16°51	29°29	29°45	6° 3	26°57	1°47	27°52	18°13	4°22	2°47	22°44	3° 9	F 10
S 11	23 20 24	18°16'13	13°36	18°43	0♍44	0♌25	6°16	27° 4	1°45	27°50	18°14	4°16	2°44	22°51	3° 7	S 11
S 12	23 24 20	19°14'44	25°52	20°33	1°58	1° 5	6°29	27°12	1°44	27°49	18°15	4°11	2°41	22°58	3° 5	S 12
M13	23 28 17	20°13'17	8♏23	22°23	3°12	1°45	6°42	27°19	1°42	27°47	18°16	4° 8	2°37	23° 4	3° 3	M13
T 14	23 32 13	21°11'53	21°11	24°12	4°26	2°26	6°54	27°26	1°40	27°46	18°17	4°D 8	2°34	23°11	3° 1	T 14
W15	23 36 10	22°10'31	4♌20	25°59	5°40	3° 6	7° 7	27°33	1°39	27°44	18°18	4° 8	2°31	23°18	2°59	W15
T 16	23 40 7	23° 9'11	17°54	27°46	6°55	3°47	7°20	27°41	1°37	27°43	18°19	4° 9	2°28	23°25	2°57	T 16
F 17	23 44 3	24° 7'53	1♏55	29°31	8° 9	4°28	7°33	27°48	1°35	27°41	18°19	4°R10	2°25	23°31	2°55	F 17
S 18	23 48 0	25° 6'37	16°23	1♌16	9°23	5° 9	7°46	27°55	1°33	27°40	18°20	4° 9	2°22	23°38	2°53	S 18
S 19	23 51 56	26° 5'24	1♍14	3° 0	10°38	5°50	7°58	28° 2	1°31	27°38	18°21	4° 7	2°18	23°45	2°50	S 19
M20	23 55 53	27° 4'12	16°23	4°42	11°52	6°31	8°11	28° 9	1°30	27°37	18°22	4° 2	2°15	23°51	2°48	M20
T 21	23 59 49	28° 3'03	1♌40	6°24	13° 7	7°12	8°24	28°16	1°28	27°36	18°22	3°55	2°12	23°58	2°46	T 21
W22	0 3 46	29° 1'56	16°55	8° 5	14°21	7°54	8°36	28°23	1°26	27°34	18°23	3°47	2° 9	24° 5	2°44	W22
T 23	0 7 42	0♌0'50	1♍57	9°44	15°36	8°35	8°49	28°30	1°24	27°33	18°24	3°38	2° 6	24°11	2°41	T 23
F 24	0 11 39	0°59'47	16°56	11°23	16°50	9°17	9° 1	28°37	1°22	27°32	18°24	3°30	2° 3	24°18	2°39	F 24
S 25	0 15 36	1°58'45	0♌48	13° 1	18° 5	9°59	9°14	28°44	1°20	27°30	18°25	3°24	1°59	24°25	2°36	S 25
S 26	0 19 32	2°57'45	14°31	14°39	19°20	10°40	9°26	28°50	1°18	27°29	18°25	3°21	1°56	24°31	2°34	S 26
M27	0 23 29	3°56'47	27°45	16°15	20°34	11°22	9°39	28°57	1°15	27°28	18°26	3°19	1°53	24°38	2°31	M27
T 28	0 27 25	4°55'51	10♌33	17°50	21°49	12° 5	9°51	29° 4	1°13	27°27	18°27	3°D19	1°50	24°45	2°29	T 28
W29	0 31 22	5°54'56	23° 1	19°25	23° 4	12°47	10° 4	29°10	1°11	27°25	18°27	3°20	1°47	24°52	2°26	W29
T 30	0 35 18	6♌54'03	5≈12	20♌59	24♍19	13♌29	10♍16	29♏17	1♌9	27°≈24	18°≈28	3°R20	1♏43	24♋58	2♌24	T 30

Day	☉			☾			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀			♂			♀					
-----	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	---	--	--	--	--	--

ASTRODIENST EPHEMERIS for the year 1683
geocentric

OCTOBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 39 15	7♂53'12	17♂12	22♂32	25♂33	14♂12	10♂28	29♂24	1°R 7	27°R23	18♂28	3°R19	1♂40	25♂5	2°R21	F 1
S 2	0 43 11	8°52'23	29° 5	24° 4	26°48	14°54	10°40	29°30	1♂5	27°≈22	18°28	3♂16	1°37	25°12	2♂18	S 2
S 3	0 47 8	9°51'36	10♂55	25°35	28° 3	15°37	10°53	29°37	1° 2	27°21	18°29	3°10	1°34	25°18	2°16	S 3
M 4	0 51 5	10°50'50	22°45	27° 6	29°18	16°19	11° 5	29°43	1° 0	27°20	18°29	3° 1	1°31	25°25	2°13	M 4
T 5	0 55 1	11°50'06	4♂37	28°36	0♂33	17° 2	11°17	29°49	0°58	27°19	18°30	2°50	1°28	25°32	2°10	T 5
W 6	0 58 58	12°49'25	16°33	0♂15	1°48	17°45	11°29	29°56	0°56	27°18	18°30	2°38	1°24	25°38	2° 7	W 6
T 7	1 2 54	13°48'46	28°34	1°33	3° 2	18°28	11°41	0♂2	0°53	27°17	18°30	2°24	1°21	25°45	2° 5	T 7
F 8	1 6 51	14°48'08	10♂41	3° 1	4°17	19°11	11°53	0° 8	0°51	27°16	18°31	2°11	1°18	25°52	2° 2	F 8
S 9	1 10 47	15°47'33	22°55	4°27	5°32	19°54	12° 4	0°14	0°49	27°15	18°31	2° 0	1°15	25°58	1°59	S 9
S 10	1 14 44	16°47'00	5♂19	5°53	6°47	20°38	12°16	0°20	0°46	27°14	18°31	1°51	1°12	26° 5	1°56	S 10
M 11	1 18 40	17°46'30	17°54	7°18	8° 2	21°21	12°28	0°26	0°44	27°13	18°31	1°45	1° 8	26°12	1°53	M 11
T 12	1 22 37	18°46'02	0♂44	8°42	9°17	22° 5	12°40	0°32	0°41	27°12	18°32	1°42	1° 5	26°19	1°50	T 12
W 13	1 26 33	19°45'36	13°50	10° 6	10°32	22°48	12°51	0°38	0°39	27°11	18°32	1°41	1° 2	26°25	1°47	W 13
T 14	1 30 30	20°45'12	27°16	11°28	11°47	23°32	13° 3	0°44	0°37	27°10	18°32	1°41	0°59	26°32	1°45	T 14
F 15	1 34 27	21°44'51	11♂5	12°49	13° 3	24°15	13°14	0°50	0°34	27° 9	18°32	1°40	0°56	26°39	1°42	F 15
S 16	1 38 23	22°44'32	25°18	14°10	14°18	24°59	13°26	0°56	0°32	27° 9	18°32	1°39	0°53	26°45	1°39	S 16
S 17	1 42 20	23°44'15	9♂54	15°29	15°33	25°43	13°37	1° 1	0°29	27° 8	18°32	1°35	0°49	26°52	1°36	S 17
M 18	1 46 16	24°44'00	24°49	16°47	16°48	26°27	13°49	1° 7	0°27	27° 7	18°32	1°28	0°46	26°59	1°33	M 18
T 19	1 50 13	25°43'48	9♂56	18° 4	18° 3	27°11	14° 0	1°12	0°24	27° 7	18°R32	1°19	0°43	27° 5	1°30	T 19
W 20	1 54 9	26°43'37	25° 6	19°19	19°18	27°55	14°11	1°18	0°22	27° 6	18°32	1° 7	0°40	27°12	1°27	W 20
T 21	1 58 6	27°43'29	10♂7	20°33	20°34	28°40	14°22	1°23	0°19	27° 5	18°32	0°56	0°37	27°19	1°24	T 21
F 22	2 2 2	28°43'23	24°51	21°45	21°49	29°24	14°33	1°28	0°17	27° 5	18°32	0°45	0°34	27°26	1°21	F 22
S 23	2 5 59	29°43'18	9♂9	22°56	23° 4	0♂8	14°44	1°33	0°15	27° 4	18°32	0°36	0°30	27°32	1°18	S 23
S 24	2 9 56	0♂43'15	22°58	24° 5	24°19	0°53	14°55	1°39	0°12	27° 4	18°32	0°30	0°27	27°39	1°15	S 24
M 25	2 13 52	1°43'14	6♂18	25°11	25°35	1°37	15° 6	1°44	0°10	27° 3	18°32	0°26	0°24	27°46	1°12	M 25
T 26	2 17 49	2°43'15	19°10	26°15	26°50	2°22	15°16	1°49	0° 7	27° 3	18°32	0°25	0°21	27°52	1° 9	T 26
W 27	2 21 45	3°43'17	1♂40	27°16	28° 5	3° 7	15°27	1°54	0° 5	27° 2	18°32	0°24	0°18	27°59	1° 6	W 27
T 28	2 25 42	4°43'20	13°51	28°15	29°20	3°51	15°37	1°58	0° 2	27° 2	18°31	0°24	0°14	28° 6	1° 3	T 28
F 29	2 29 38	5°43'26	25°50	29°10	0♂36	4°36	15°48	2° 3	29°Y59	27° 1	18°31	0°23	0°11	28°12	1° 0	F 29
S 30	2 33 35	6°43'32	7♂42	0♂1	1°51	5°21	15°58	2° 8	29°57	27° 1	18°31	0°19	0° 8	28°19	0°57	S 30
S 31	2 37 31	7♂43'41	19♂31	0♂48	3♂6	6♂6	16♂8	2♂12	29°Y55	27°≈ 1	18♂31	0♂13	0♂5	28♂26	0♂54	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3s 8	16s52	1s13	9s13	0s28	3n 6	1n28	24s10	1s39	8n33	0n58	12n56	1n19	11n22	0s33	F 1
S 2	3 31	13 53	2 13	9 54	0 35	2 37	1 28	24 15	1 39	8 29	0 58	12 54	1 19	11 21	0 33	S 2
S 3	3 55	10 21	3 6	10 34	0 42	2 7	1 28	24 20	1 39	8 24	0 58	12 52	1 19	11 21	0 33	S 3
M 4	4 18	6 25	3 51	11 13	0 49	1 37	1 28	24 25	1 39	8 20	0 59	12 50	1 19	11 20	0 33	M 4
T 5	4 41	2 14	4 26	11 52	0 56	1 7	1 28	24 29	1 39	8 15	0 59	12 47	1 19	11 19	0 33	T 5
W 6	5 4	2n 3	4 50	12 30	1 3	0 37	1 27	24 33	1 39	8 11	0 59	12 45	1 20	11 18	0 33	W 6
T 7	5 28	6 18	5 0	13 8	1 10	0 7	1 27	24 37	1 39	8 6	0 59	12 43	1 20	11 17	0 33	T 7
F 8	5 51	10 20	4 58	13 45	1 17	0s23	1 27	24 40	1 38	8 2	0 59	12 41	1 20	11 17	0 33	F 8
S 9	6 13	13 59	4 42	14 20	1 24	0 53	1 26	24 44	1 38	7 57	0 59	12 39	1 20	11 16	0 33	S 9
S 10	6 36	17 5	4 12	14 56	1 30	1 23	1 26	24 47	1 38	7 53	0 59	12 37	1 20	11 15	0 33	S 10
M 11	6 59	19 27	3 30	15 30	1 37	1 53	1 26	24 50	1 38	7 48	0 59	12 35	1 20	11 14	0 33	M 11
T 12	7 22	20 53	2 36	16 3	1 43	2 23	1 25	24 53	1 38	7 44	1 0	12 33	1 21	11 13	0 33	T 12
W 13	7 44	21 13	1 33	16 36	1 50	2 53	1 24	24 55	1 38	7 40	1 0	12 31	1 21	11 12	0 33	W 13
T 14	8 7	20 22	0 23	17 8	1 56	3 23	1 24	24 57	1 38	7 35	1 0	12 30	1 21	11 12	0 33	T 14
F 15	8 29	18 16	0n50	17 39	2 2	3 53	1 23	24 59	1 38	7 31	1 0	12 28	1 21	11 11	0 33	F 15
S 16	8 52	15 1	2 1	18 8	2 7	4 23	1 22	25 1	1 38	7 27	1 0	12 26	1 21	11 10	0 33	S 16
S 17	9 14	10 45	3 7	18 37	2 13	4 53	1 21	25 2	1 38	7 23	1 0	12 24	1 21	11 9	0 33	S 17
M 18	9 36	5 46	4 2	19 5	2 18	5 23	1 20	25 3	1 38	7 18	1 0	12 22	1 22	11 8	0 33	M 18
T 19	9 58	0 21	4 40	19 32	2 23	5 52	1 19	25 4	1 37	7 14	1 0	12 20	1 22	11 7	0 33	T 19
W 20	10 19	5s 6	4 59	19 57	2 28	6 22	1 18	25 5	1 37	7 10	1 1	12 19	1 22	11 7	0 33	W 20
T 21	10 41	10 11	4 56	20 22	2 32	6 51	1 17	25 5	1 37	7 6	1 1	12 17	1 22	11 6	0 33	T 21
F 22	11 2	14 34	4 34	20 45	2 36	7 20	1 16	25 6	1 37	7 2	1 1	12 15	1 22	11 5	0 33	F 22
S 23	11 24	17 59	3 56	21 7	2 40	7 49	1 15	25 5	1 37	6 58	1 1	12 13	1 23	11 4	0 33	S 23
S 24	11 45	20 14	3 4	21 27	2 43	8 18	1 14	25 5	1 37	6 54	1 1	12 12	1 23	11 3	0 33	S 24
M 25	12 6	21 16	2 4	21 47	2 46	8 47	1 12	25 4	1 36	6 50	1 2	12 10	1 23	11 2	0 33	M 25
T 26	12 26	21 8	0 59	22 4	2 48	9 16	1 11	25 4	1 36	6 46	1 2	12 9	1 23	11 1	0 33	T 26
W 27	12 47	19 56	0s 7	22 21	2 50	9 44	1 9	25 2	1 36	6 42	1 2	12 7	1 23	11 1	0 33	W 27
T 28	13 7	17 49	1 11	22 35	2 52	10 12	1 8	25 1	1 36	6 38	1 2	12 5	1 24	11 0	0 33	T 28
F 29	13 27	14 58	2 10	22 48	2 52	10 40	1 6	24 59	1 35	6 34	1 2	12 4	1 24	10 59	0 33	F 29
S 30	13 47	11 32	3 4	22 59	2 52	11 7	1 5	24 57	1 35	6 30	1 2	12 2	1 24	10 58	0 33	S 30
S 31	14s 7	7s39	3s49	23s 9	2s51	11s35	1n 3	24s55	1s35	6n26	1n 3	12n 1	1n24	10n57	0s33	S 31

Julian Day Number = 2336036.5, Delta T = 21.58 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'33, Lahiri = 19°26'33Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1683

geocentric

NOVEMBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 41 28	8♠43'51	1°V22	1♠31	4♠22	6♠51	16♠19	2♠17	29°R52	27°R 1	18°R30	0°R 4	0♠2	28♠33	0°R51	M 1
T 2	2 45 25	9°44'02	13°17	2° 9	5°37	7°36	16°29	2°21	29°V50	27°≈ 0	18°E30	29°E53	29°E59	28°39	0♠48	T 2
W 3	2 49 21	10°44'16	25°20	2°40	6°52	8°21	16°39	2°26	29°48	27° 0	18°30	29°39	29°55	28°46	0°45	W 3
T 4	2 53 18	11°44'31	7♠30	3° 6	8° 8	9° 6	16°49	2°30	29°45	27° 0	18°29	29°25	29°52	28°53	0°42	T 4
F 5	2 57 14	12°44'48	19°50	3°24	9°23	9°51	16°58	2°34	29°43	27° 0	18°29	29°12	29°49	28°59	0°39	F 5
S 6	3 1 11	13°45'06	2♠19	3°34	10°38	10°37	17° 8	2°38	29°40	27° 0	18°28	28°59	29°46	29° 6	0°36	S 6
S 7	3 5 7	14°45'27	14°58	3°R37	11°54	11°22	17°18	2°42	29°38	27° 0	18°28	28°50	29°43	29°13	0°33	S 7
M 8	3 9 4	15°45'49	27°47	3°30	13° 9	12° 8	17°27	2°46	29°36	27°D 0	18°27	28°43	29°40	29°20	0°30	M 8
T 9	3 13 0	16°46'13	10°E48	3°13	14°24	12°53	17°36	2°50	29°33	27° 0	18°27	28°40	29°36	29°26	0°28	T 9
W10	3 16 57	17°46'39	24° 1	2°46	15°40	13°38	17°46	2°53	29°31	27° 0	18°26	28°D38	29°33	29°33	0°25	W10
T 11	3 20 54	18°47'07	7♠29	2° 9	16°55	14°24	17°55	2°57	29°29	27° 0	18°26	28°38	29°30	29°40	0°22	T 11
F 12	3 24 50	19°47'37	21°13	1°22	18°11	15°10	18° 4	3° 0	29°26	27° 0	18°25	28°R39	29°27	29°46	0°19	F 12
S 13	3 28 47	20°48'08	5♠14	0°25	19°26	15°55	18°13	3° 4	29°24	27° 0	18°25	28°38	29°24	29°53	0°16	S 13
S 14	3 32 43	21°48'42	19°32	29♠19	20°41	16°41	18°22	3° 7	29°22	27° 0	18°24	28°35	29°20	29°59	0°14	S 14
M15	3 36 40	22°49'17	4♠6	28° 7	21°57	17°27	18°30	3°10	29°20	27° 1	18°24	28°29	29°17	0°V6	0°11	M15
T 16	3 40 36	23°49'54	18°49	26°48	23°12	18°13	18°39	3°13	29°18	27° 1	18°23	28°21	29°14	0°13	0° 8	T 16
W17	3 44 33	24°50'33	3♠37	25°27	24°28	18°58	18°47	3°17	29°15	27° 1	18°22	28°12	29°11	0°20	0° 6	W17
T 18	3 48 29	25°51'13	18°21	24° 6	25°43	19°44	18°56	3°19	29°13	27° 1	18°22	28° 1	29° 8	0°27	0° 3	T 18
F 19	3 52 26	26°51'54	2♠52	22°46	26°59	20°30	19° 4	3°22	29°11	27° 2	18°21	27°52	29° 5	0°33	0° 0	F 19
S 20	3 56 23	27°52'38	17° 3	21°32	28°14	21°16	19°12	3°25	29° 9	27° 2	18°20	27°44	29° 1	0°40	29°V58	S 20
S 21	4 0 19	28°53'22	0♠51	20°26	29°30	22° 2	19°20	3°28	29° 7	27° 3	18°19	27°38	28°58	0°47	29°55	S 21
M22	4 4 16	29°54'08	14°12	19°28	0♠45	22°49	19°28	3°30	29° 5	27° 3	18°19	27°35	28°55	0°53	29°53	M22
T 23	4 8 12	0♠54'54	27° 8	18°41	2° 0	23°35	19°35	3°32	29° 3	27° 3	18°18	27°D34	28°52	1° 0	29°50	T 23
W24	4 12 9	1°55'42	9♠41	18° 6	3°16	24°21	19°43	3°35	29° 1	27° 4	18°17	27°34	28°49	1° 7	29°48	W24
T 25	4 16 5	2°56'31	21°56	17°41	4°31	25° 7	19°50	3°37	28°59	27° 5	18°16	27°35	28°46	1°14	29°45	T 25
F 26	4 20 2	3°57'20	3♠58	17°29	5°47	25°53	19°58	3°39	28°57	27° 5	18°15	27°R36	28°42	1°20	29°43	F 26
S 27	4 23 58	4°58'11	15°51	17°D27	7° 2	26°39	20° 5	3°41	28°55	27° 6	18°14	27°35	28°39	1°27	29°41	S 27
S 28	4 27 55	5°59'02	27°42	17°36	8°18	27°26	20°12	3°43	28°53	27° 6	18°14	27°32	28°36	1°34	29°38	S 28
M29	4 31 52	6°59'54	9°V34	17°54	9°33	28°12	20°19	3°45	28°52	27° 7	18°13	27°27	28°33	1°40	29°36	M29
T 30	4 35 48	8♠0'47	21°V32	18♠21	10♠49	28°E58	20♠25	3♠46	28°V50	27°≈ 8	18°E12	27°E20	28°E30	1°V47	29°V34	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	14s26	3s29	4s24	23s16	2s49	12s 2	1n 1	24s53	1s35	6n22	1n 3	12n 0	1n24	10n56	0s33	13s 8
T 2	14 45	0n50	4 48	23 21	2 47	12 29	1 0	24 50	1 34	6 19	1 3	11 58	1 25	10 55	0 33	13 8
W 3	15 4	5 10	4 59	23 24	2 43	12 55	0 58	24 47	1 34	6 15	1 3	11 57	1 25	10 55	0 33	13 8
T 4	15 23	9 21	4 57	23 24	2 38	13 21	0 56	24 44	1 34	6 11	1 3	11 55	1 25	10 54	0 33	13 8
F 5	15 41	13 12	4 41	23 21	2 32	13 47	0 54	24 40	1 34	6 8	1 4	11 54	1 25	10 53	0 33	13 8
S 6	16 0	16 33	4 12	23 16	2 25	14 13	0 52	24 36	1 33	6 4	1 4	11 53	1 25	10 52	0 33	13 8
S 7	16 18	19 10	3 29	23 8	2 16	14 38	0 50	24 32	1 33	6 1	1 4	11 52	1 26	10 51	0 33	13 8
M 8	16 35	20 52	2 36	22 57	2 6	15 2	0 48	24 28	1 33	5 57	1 4	11 50	1 26	10 50	0 33	13 8
T 9	16 53	21 29	1 33	22 42	1 54	15 27	0 46	24 23	1 32	5 54	1 4	11 49	1 26	10 50	0 32	13 8
W10	17 10	20 56	0 25	22 23	1 40	15 51	0 44	24 18	1 32	5 50	1 5	11 48	1 26	10 49	0 32	13 8
T 11	17 26	19 11	0n47	22 1	1 25	16 14	0 42	24 13	1 32	5 47	1 5	11 47	1 27	10 48	0 32	13 8
F 12	17 43	16 18	1 57	21 35	1 8	16 38	0 40	24 8	1 31	5 43	1 5	11 46	1 27	10 47	0 32	13 8
S 13	17 59	12 25	3 2	21 6	0 50	17 0	0 38	24 2	1 31	5 40	1 5	11 45	1 27	10 46	0 32	13 8
S 14	18 15	7 46	3 56	20 33	0 31	17 23	0 36	23 56	1 30	5 37	1 5	11 44	1 27	10 46	0 32	13 8
M15	18 30	2 36	4 36	19 57	0 11	17 44	0 34	23 50	1 30	5 34	1 6	11 43	1 27	10 45	0 32	13 8
T 16	18 46	2s46	4 59	19 19	0n10	18 6	0 32	23 43	1 30	5 30	1 6	11 42	1 28	10 44	0 32	13 7
W17	19 1	8 1	5 2	18 40	0 30	18 27	0 29	23 36	1 29	5 27	1 6	11 41	1 28	10 43	0 32	13 7
T 18	19 15	12 45	4 45	18 1	0 50	18 47	0 27	23 29	1 29	5 24	1 6	11 40	1 28	10 43	0 32	13 7
F 19	19 29	16 42	4 9	17 23	1 9	19 7	0 25	23 22	1 29	5 21	1 6	11 40	1 28	10 42	0 32	13 7
S 20	19 43	19 33	3 19	16 47	1 27	19 26	0 22	23 15	1 28	5 18	1 7	11 39	1 29	10 41	0 32	13 7
S 21	19 57	21 11	2 18	16 14	1 43	19 45	0 20	23 7	1 28	5 15	1 7	11 38	1 29	10 41	0 32	13 7
M22	20 10	21 33	1 11	15 45	1 57	20 3	0 18	22 59	1 27	5 12	1 7	11 37	1 29	10 40	0 32	13 7
T 23	20 23	20 44	0 2	15 21	2 9	20 21	0 15	22 51	1 27	5 10	1 7	11 37	1 29	10 39	0 32	13 6
W24	20 35	18 53	1s 5	15 2	2 19	20 38	0 13	22 42	1 26	5 7	1 8	11 36	1 30	10 38	0 32	13 6
T 25	20 47	16 13	2 7	14 48	2 26	20 54	0 11	22 33	1 26	5 4	1 8	11 36	1 30	10 38	0 32	13 6
F 26	20 58	12 54	3 3	14 39	2 32	21 10	0 8	22 24	1 25	5 1	1 8	11 35	1 30	10 37	0 32	13 6
S 27	21 10	9 7	3 50	14 35	2 36	21 25	0 6	22 15	1 25	4 59	1 8	11 35	1 30	10 37	0 32	13 6
S 28	21 20	5 0	4 27	14 35	2 38	21 40	0 4	22 5	1 25	4 56	1 8	11 34	1 31	10 36	0 32	13 5
M29	21 31	0 41	4 52	14 40	2 38	21 54	0 1	21 56	1 24	4 54	1 9	11 34	1 31	10 35	0 32	13 5
T 30	21s41	3n41	5s 5	14s48	2n37	22s 7	0s 1	21s46	1s24	4n51	1n 9	11n33	1n31	10n35	0s32	13s 5

Julian Day Number = 2336067.5, Delta T = 21.54 sec

Ecliptic obliquity = 23°28'45", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°19'37", Lahiri = 19°26'38"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1683
geocentric

DECEMBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 39 45	9♌ 1'41	3♌40	18♌56	12♌ 4	29♌45	20♌32	3♌48	28°R48	27° 9	18°R11	27°R12	28°26	1°Y54	29°R32	W 1
T 2	4 43 41	10° 2'36	15°59	19°38	13°20	0♌31	20°38	3°49	28°Y46	27° 9	18°210	27°23	28°23	2° 0	29°Y30	T 2
F 3	4 47 38	11° 3'31	28°32	20°27	14°35	1°18	20°45	3°51	28°45	27°10	18° 9	26°54	28°20	2° 7	29°28	F 3
S 4	4 51 34	12° 4'28	11°18	21°20	15°50	2° 4	20°51	3°52	28°43	27°11	18° 8	26°46	28°17	2°14	29°26	S 4
S 5	4 55 31	13° 5'26	24°17	22°19	17° 6	2°51	20°57	3°53	28°42	27°12	18° 7	26°40	28°14	2°21	29°24	S 5
M 6	4 59 27	14° 6'24	7°28	23°22	18°21	3°37	21° 3	3°54	28°40	27°13	18° 6	26°36	28°11	2°27	29°22	M 6
T 7	5 3 24	15° 7'24	20°51	24°28	19°37	4°24	21° 8	3°55	28°39	27°14	18° 5	26°D34	28° 7	2°34	29°20	T 7
W 8	5 7 21	16° 8'24	4°25	25°38	20°52	5°10	21°14	3°56	28°37	27°15	18° 4	26°34	28° 4	2°41	29°18	W 8
T 9	5 11 17	17° 9'26	18° 8	26°50	22° 8	5°57	21°19	3°56	28°36	27°16	18° 3	26°35	28° 1	2°47	29°16	T 9
F 10	5 15 14	18°10'28	2°0	28° 5	23°23	6°43	21°24	3°57	28°34	27°17	18° 2	26°37	27°58	2°54	29°15	F 10
S 11	5 19 10	19°11'32	16° 1	29°21	24°39	7°30	21°29	3°57	28°33	27°18	18° 1	26°R38	27°55	3° 1	29°13	S 11
S 12	5 23 7	20°12'36	0°10	0°40	25°54	8°16	21°34	3°58	28°32	27°19	17°59	26°37	27°51	3° 8	29°11	S 12
M13	5 27 3	21°13'42	14°25	2° 0	27°10	9° 3	21°39	3°58	28°31	27°20	17°58	26°35	27°48	3°14	29°10	M13
T 14	5 31 0	22°14'48	28°44	3°22	28°25	9°50	21°43	3°58	28°29	27°22	17°57	26°32	27°45	3°21	29° 8	T 14
W15	5 34 56	23°15'55	13°3	4°45	29°40	10°36	21°48	3°R58	28°28	27°23	17°56	26°27	27°42	3°28	29° 7	W15
T 16	5 38 53	24°17'03	27°18	6° 9	0°56	11°23	21°52	3°58	28°27	27°24	17°55	26°22	27°39	3°34	29° 5	T 16
F 17	5 42 50	25°18'11	11°23	7°33	2°11	12°10	21°56	3°58	28°26	27°25	17°54	26°17	27°36	3°41	29° 4	F 17
S 18	5 46 46	26°19'21	25°13	8°59	3°27	12°57	22° 0	3°57	28°25	27°27	17°52	26°13	27°32	3°48	29° 3	S 18
S 19	5 50 43	27°20'30	8°36	10°26	4°42	13°43	22° 3	3°57	28°24	27°28	17°51	26°10	27°29	3°55	29° 1	S 19
M20	5 54 39	28°21'40	21°58	11°53	5°58	14°30	22° 7	3°56	28°23	27°29	17°50	26°D 9	27°26	4° 1	29° 0	M20
T 21	5 58 36	29°22'50	4°51	13°20	7°13	15°17	22°10	3°56	28°22	27°31	17°49	26° 9	27°23	4° 8	28°59	T 21
W22	6 2 32	0°24'01	17°24	14°49	8°29	16° 3	22°13	3°55	28°22	27°32	17°48	26°10	27°20	4°15	28°58	W22
T 23	6 6 29	1°25'11	29°41	16°17	9°44	16°50	22°16	3°54	28°21	27°33	17°46	26°12	27°17	4°21	28°57	T 23
F 24	6 10 26	2°26'21	11°45	17°47	10°59	17°37	22°19	3°53	28°20	27°35	17°45	26°14	27°13	4°28	28°56	F 24
S 25	6 14 22	3°27'31	23°40	19°16	12°15	18°24	22°21	3°52	28°19	27°36	17°44	26°15	27°10	4°35	28°55	S 25
S 26	6 18 19	4°28'41	5°Y32	20°46	13°30	19°11	22°24	3°51	28°19	27°38	17°43	26°R15	27° 7	4°42	28°54	S 26
M27	6 22 15	5°29'51	17°25	22°17	14°46	19°57	22°26	3°49	28°18	27°39	17°41	26°15	27° 4	4°48	28°53	M27
T 28	6 26 12	6°31'01	29°24	23°48	16° 1	20°44	22°28	3°48	28°18	27°41	17°40	26°13	27° 1	4°55	28°53	T 28
W29	6 30 8	7°32'10	11°33	25°19	17°16	21°31	22°30	3°46	28°17	27°43	17°39	26°11	26°57	5° 2	28°52	W29
T 30	6 34 5	8°33'19	23°56	26°51	18°32	22°18	22°31	3°45	28°17	27°44	17°38	26° 8	26°54	5° 8	28°51	T 30
F 31	6 38 1	9°34'28	6°II36	28°23	19°347	23° 4	22°33	3°43	28°Y17	27°46	17°36	26°5	26°51	5°Y15	28°Y51	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	21s50	7n58	5s 5	14s59	2n36	22s20	0s 4	21s35	1s23	4n49	1n 9	11n33	1n31	10n34	0s32	13s 5
T 2	22 0	12 1	4 51	15 13	2 33	22 32	0 6	21 25	1 23	4 47	1 9	11 33	1 32	10 34	0 32	13 4
F 3	22 8	15 36	4 22	15 30	2 29	22 44	0 8	21 14	1 22	4 45	1 10	11 32	1 32	10 33	0 32	13 4
S 4	22 17	18 32	3 40	15 48	2 24	22 54	0 11	21 3	1 22	4 42	1 10	11 32	1 32	10 32	0 32	13 4
S 5	22 24	20 36	2 46	16 8	2 19	23 4	0 13	20 52	1 21	4 40	1 10	11 32	1 32	10 32	0 32	13 3
M 6	22 32	21 35	1 42	16 29	2 13	23 14	0 16	20 41	1 20	4 38	1 10	11 32	1 33	10 31	0 32	13 3
T 7	22 39	21 21	0 31	16 52	2 7	23 22	0 18	20 29	1 20	4 36	1 11	11 32	1 33	10 31	0 32	13 3
W 8	22 45	19 53	0n42	17 15	2 1	23 30	0 20	20 17	1 19	4 34	1 11	11 32	1 33	10 30	0 32	13 2
T 9	22 51	17 14	1 54	17 38	1 54	23 37	0 23	20 5	1 19	4 32	1 11	11 32	1 33	10 30	0 32	13 2
F 10	22 57	13 35	3 1	18 2	1 47	23 44	0 25	19 53	1 18	4 31	1 12	11 32	1 33	10 29	0 32	13 2
S 11	23 2	9 9	3 57	18 26	1 39	23 49	0 27	19 41	1 18	4 29	1 12	11 32	1 34	10 29	0 32	13 1
S 12	23 7	4 12	4 39	18 49	1 32	23 54	0 30	19 28	1 17	4 27	1 12	11 32	1 34	10 29	0 32	13 1
M13	23 11	1s 1	5 4	19 13	1 24	23 59	0 32	19 15	1 17	4 26	1 12	11 32	1 34	10 28	0 32	13 0
T 14	23 15	6 12	5 11	19 36	1 17	24 2	0 34	19 2	1 16	4 24	1 13	11 32	1 34	10 28	0 32	13 0
W15	23 18	11 2	4 59	19 59	1 9	24 5	0 36	18 49	1 15	4 22	1 13	11 32	1 35	10 27	0 32	13 0
T 16	23 21	15 15	4 28	20 22	1 1	24 7	0 38	18 36	1 15	4 21	1 13	11 33	1 35	10 27	0 32	12 59
F 17	23 24	18 32	3 41	20 44	0 53	24 8	0 41	18 22	1 14	4 20	1 13	11 33	1 35	10 27	0 32	12 59
S 18	23 26	20 42	2 41	21 5	0 46	24 9	0 43	18 8	1 14	4 18	1 14	11 33	1 35	10 26	0 32	12 58
S 19	23 27	21 38	1 34	21 25	0 38	24 9	0 45	17 54	1 13	4 17	1 14	11 34	1 36	10 26	0 32	12 58
M20	23 28	21 18	0 23	21 45	0 30	24 8	0 47	17 40	1 13	4 16	1 14	11 34	1 36	10 26	0 31	12 57
T 21	23 29	19 51	0s48	22 4	0 23	24 6	0 49	17 26	1 12	4 15	1 14	11 35	1 36	10 25	0 31	12 57
W22	23 29	17 27	1 54	22 22	0 15	24 3	0 51	17 11	1 11	4 14	1 15	11 35	1 36	10 25	0 31	12 56
T 23	23 28	14 19	2 54	22 39	0 8	24 0	0 53	16 56	1 11	4 13	1 15	11 36	1 37	10 25	0 31	12 56
F 24	23 27	10 38	3 45	22 55	0 0	23 56	0 55	16 41	1 10	4 12	1 15	11 36	1 37	10 25	0 31	12 55
S 25	23 26	6 35	4 26	23 10	0s 7	23 52	0 57	16 26	1 9	4 12	1 16	11 37	1 37	10 25	0 31	12 55
S 26	23 24	2 19	4 55	23 23	0 14	23 46	0 59	16 11	1 9	4 11	1 16	11 38	1 37	10 24	0 31	12 54
M27	23 22	2n 3	5 11	23 36	0 21	23 40	1 1	15 56	1 8	4 10	1 16	11 38	1 38	10 24	0 31	12 54
T 28	23 19	6 22	5 15	23 48	0 28	23 33	1 3	15 40	1 8	4 10	1 16	11 39	1 38	10 24	0 31	12 53
W29	23 16	10 30	5 4	23 58	0 34	23 25	1 4	15 25	1 7	4 9	1 17	11 40	1 38	10 24	0 31	12 53
T 30	23 12	14 17	4 39	24 7	0 41	23 17	1 6	15 9	1 6	4 9	1 17	11 41	1 38	10 24	0 31	12 52
F 31	23s 8	17n30	4s 0	24s15	0s47	23s 8	1s 8	14s53	1s 6	4n 9	1n17	11n41	1n39	10n24	0s31	12s52

Julian Day Number = 2336097.5, Delta T = 21.49 sec
Ecliptic obliquity = 23°28'45", Nutation = - 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'41", Lahiri = 19°26'42"Greg. Calendar