Astrodienst Ephemeris Tables
for the year 1677

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 1677
geocentric

JANUARY 1677 GC   00:00 UT

Day	Sid.t	⊙	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 44 44	11♑18'56	2♐18	26♐27	28♏40	3°R17	29♑16	19°R13	0♈20	12≈47	8°R49	13♐28	12♐10	20♊40	1♈45	F 1
S 2	6 48 41	12°20'08	17°14	27°57	29°51	2♋55	29°30	19♉11	0°21	12°49	8♋48	13°R28	12° 6	20°47	1°46	S 2
S 3	6 52 38	13°21'20	2♑21	29°28	1♐ 2	2°33	29°44	19° 9	0°23	12°51	8°46	13°27	12° 3	20°53	1°48	S 3
M 4	6 56 34	14°22'31	17°30	0♑59	2°13	2°11	29°58	19° 7	0°24	12°53	8°45	13°25	12° 0	21° 0	1°49	M 4
T 5	7 0 31	15°23'43	2≈30	2°30	3°24	1°50	0≈12	19° 6	0°25	12°55	8°44	13°20	11°57	21° 6	1°50	T 5
W 6	7 4 27	16°24'53	17°14	4° 2	4°35	1°29	0°26	19° 4	0°27	12°57	8°43	13°15	11°54	21°13	1°52	W 6
T 7	7 8 24	17°26'04	1♓33	5°34	5°46	1° 9	0°40	19° 3	0°28	12°59	8°41	13°10	11°50	21°20	1°53	T 7
F 8	7 12 20	18°27'13	15°25	7° 7	6°58	0°49	0°54	19° 1	0°30	13° 1	8°40	13° 5	11°47	21°26	1°54	F 8
S 9	7 16 17	19°28'22	28°47	8°40	8° 9	0°31	1° 8	19° 0	0°31	13° 3	8°39	13° 2	11°44	21°33	1°56	S 9
S 10	7 20 13	20°29'30	11♈43	10°14	9°20	0°12	1°22	18°59	0°33	13° 6	8°38	13° 0	11°41	21°40	1°58	S 10
M11	7 24 10	21°30'38	24°15	11°48	10°32	29♊55	1°37	18°58	0°34	13° 8	8°37	12°D59	11°38	21°46	1°59	M11
T 12	7 28 7	22°31'44	6♉29	13°22	11°44	29°38	1°51	18°57	0°36	13°10	8°35	13° 0	11°35	21°53	2° 1	T 12
W13	7 32 3	23°32'50	18°28	14°58	12°55	29°22	2° 5	18°56	0°38	13°12	8°34	13° 2	11°31	22° 0	2° 3	W13
T 14	7 36 0	24°33'55	0♊19	16°33	14° 7	29° 6	2°19	18°56	0°40	13°14	8°33	13° 3	11°28	22° 6	2° 4	T 14
F 15	7 39 56	25°34'59	12° 5	18°10	15°19	28°51	2°33	18°55	0°42	13°16	8°32	13°R 4	11°25	22°13	2° 6	F 15
S 16	7 43 53	26°36'03	23°52	19°46	16°31	28°37	2°47	18°55	0°43	13°19	8°31	13° 3	11°22	22°20	2° 8	S 16
S 17	7 47 49	27°37'05	5♋42	21°24	17°43	28°24	3° 2	18°55	0°45	13°21	8°29	13° 1	11°19	22°26	2°10	S 17
M18	7 51 46	28°38'07	17°39	23° 2	18°55	28°12	3°16	18°54	0°47	13°23	8°28	12°56	11°16	22°33	2°12	M18
T 19	7 55 42	29°39'08	29°44	24°40	20° 7	28° 0	3°30	18°D54	0°49	13°25	8°27	12°49	11°12	22°40	2°14	T 19
W20	7 59 39	0≈40'08	11♌58	26°20	21°19	27°49	3°44	18°54	0°51	13°27	8°26	12°40	11° 9	22°46	2°16	W20
T 21	8 3 36	1°41'07	24°23	27°59	22°31	27°39	3°59	18°54	0°53	13°30	8°25	12°30	11° 6	22°53	2°18	T 21
F 22	8 7 32	2°42'05	6♍59	29°40	23°44	27°30	4°13	18°55	0°56	13°32	8°24	12°21	11° 3	23° 0	2°21	F 22
S 23	8 11 29	3°43'03	19°47	1≈21	24°56	27°22	4°27	18°55	0°58	13°34	8°23	12°13	11° 0	23° 6	2°23	S 23
S 24	8 15 25	4°43'59	2♎47	3° 3	26° 8	27°14	4°41	18°56	1° 0	13°36	8°21	12° 6	10°56	23°13	2°25	S 24
M25	8 19 22	5°44'55	16° 1	4°45	27°21	27° 7	4°56	18°56	1° 2	13°39	8°20	12° 2	10°53	23°19	2°27	M25
T 26	8 23 18	6°45'51	29°30	6°29	28°33	27° 1	5°10	18°57	1° 4	13°41	8°19	12° 0	10°50	23°26	2°30	T 26
W27	8 27 15	7°46'45	13♏15	8°12	29°46	26°56	5°24	18°58	1° 7	13°43	8°18	12°D 0	10°47	23°33	2°32	W27
T 28	8 31 11	8°47'39	27°16	9°57	0♑59	26°52	5°38	18°59	1° 9	13°46	8°17	12° 0	10°44	23°39	2°34	T 28
F 29	8 35 8	9°48'32	11♐35	11°42	2°11	26°48	5°53	19° 0	1°12	13°48	8°16	12°R 1	10°41	23°46	2°37	F 29
S 30	8 39 5	10°49'25	26° 8	13°28	3°24	26°45	6° 7	19° 1	1°14	13°50	8°15	12° 0	10°37	23°53	2°39	S 30
S 31	8 43 1	11≈50'16	10♑53	15≈15	4♑37	26♊43	6≈21	19♉ 2	1♈16	13≈52	8♋14	11♐57	10♐34	23♊59	2♈42	S 31

Day	⊙		☽			☿		♀		♂		♃		♄		♅		♆		♇		☊		☊	⚸	⚷	
	decl		decl	lat		decl	lat		decl	lat		decl	lat		decl	lat		decl	lat		decl	lat		decl	lat		decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23 s 0	21s39	1 s 1	23 s48	0s22	17s31	2n26	27n 9	3n42	20s49	0s29	15n23	2s15	0s31	0s43	17s10	0s10	20n58	2s14	22s27	22s17	22n23	3n 5	2n36
S 2	22 54	22 31	0n21	23 57	0 29	17 48	2 25	27 10	3 43	20 46	0 29	15 23	2 15	0 31	0 43	17 9	0 10	20 58	2 14	22 27	22 17	22 23	3 5	2 36
S 3	22 49	21 46	1 42	24 4	0 36	18 4	2 23	27 11	3 44	20 43	0 29	15 23	2 15	0 30	0 43	17 9	0 10	20 58	2 14	22 27	22 16	22 23	3 6	2 36
M 4	22 42	19 26	2 56	24 11	0 42	18 20	2 21	27 12	3 44	20 40	0 29	15 22	2 14	0 30	0 43	17 8	0 10	20 58	2 14	22 27	22 16	22 22	3 6	2 35
T 5	22 35	15 47	3 57	24 16	0 49	18 35	2 20	27 13	3 45	20 37	0 29	15 22	2 14	0 29	0 43	17 8	0 10	20 58	2 14	22 26	22 16	22 22	3 6	2 35
W 6	22 28	11 14	4 41	24 20	0 55	18 50	2 18	27 13	3 45	20 34	0 29	15 22	2 14	0 29	0 43	17 7	0 10	20 58	2 14	22 26	22 15	22 21	3 7	2 34
T 7	22 21	6 10	5 6	24 23	1 1	19 5	2 16	27 14	3 45	20 31	0 29	15 22	2 13	0 28	0 43	17 6	0 10	20 58	2 14	22 25	22 15	22 21	3 7	2 34
F 8	22 12	0 58	5 12	24 24	1 7	19 19	2 14	27 14	3 46	20 28	0 29	15 22	2 13	0 27	0 43	17 6	0 10	20 59	2 13	22 24	22 14	22 20	3 7	2 34
S 9	22 4	4n 7	5 1	24 24	1 12	19 32	2 11	27 14	3 46	20 25	0 29	15 22	2 13	0 27	0 43	17 5	0 10	20 59	2 13	22 24	22 14	22 20	3 8	2 34
S 10	21 55	8 51	4 34	24 22	1 18	19 46	2 9	27 14	3 46	20 22	0 30	15 22	2 13	0 26	0 43	17 5	0 10	20 59	2 13	22 24	22 13	22 19	3 8	2 34
M11	21 45	13 4	3 55	24 20	1 23	19 58	2 7	27 14	3 46	20 19	0 30	15 22	2 12	0 25	0 43	17 4	0 10	20 59	2 13	22 24	22 13	22 19	3 9	2 34
T 12	21 36	16 38	3 6	24 16	1 28	20 10	2 5	27 14	3 45	20 16	0 30	15 22	2 12	0 24	0 43	17 4	0 10	20 59	2 13	22 24	22 13	22 19	3 9	2 34
W13	21 25	19 26	2 10	24 10	1 32	20 22	2 2	27 13	3 45	20 13	0 30	15 22	2 12	0 24	0 42	17 3	0 10	20 59	2 13	22 24	22 12	22 18	3 10	2 34
T 14	21 15	21 22	1 9	24 3	1 37	20 33	2 0	27 14	3 45	20 10	0 30	15 22	2 11	0 23	0 42	17 2	0 10	20 59	2 13	22 24	22 12	22 18	3 10	2 33
F 15	21 4	22 22	0 5	23 55	1 41	20 44	1 57	27 13	3 44	20 7	0 30	15 23	2 11	0 22	0 42	17 2	0 10	21 0	2 13	22 24	22 11	22 17	3 11	2 33
S 16	20 52	22 22	0s58	23 45	1 44	20 54	1 55	27 12	3 44	20 3	0 30	15 23	2 11	0 22	0 42	17 1	0 10	21 0	2 13	22 24	22 11	22 17	3 11	2 33
S 17	20 40	21 22	2 0	23 33	1 48	21 3	1 52	27 12	3 44	20 0	0 30	15 23	2 11	0 21	0 42	17 0	0 10	21 0	2 13	22 24	22 10	22 16	3 12	2 33
M18	20 28	19 24	2 56	23 20	1 51	21 12	1 49	27 11	3 43	19 57	0 30	15 24	2 10	0 20	0 42	17 0	0 10	21 0	2 13	22 23	22 10	22 16	3 13	2 33
T 19	20 16	16 34	3 45	23 6	1 54	21 21	1 46	27 10	3 42	19 54	0 30	15 24	2 10	0 19	0 42	16 59	0 10	21 0	2 13	22 22	22 10	22 15	3 13	2 32
W20	20 3	13 0	4 24	22 50	1 57	21 28	1 44	27 9	3 42	19 50	0 30	15 24	2 10	0 18	0 42	16 59	0 10	21 0	2 13	22 22	22 9	22 15	3 14	2 32
T 21	19 49	8 50	4 52	22 32	1 59	21 35	1 41	27 8	3 41	19 47	0 30	15 25	2 9	0 17	0 42	16 58	0 10	21 1	2 12	22 21	22 9	22 14	3 15	2 32
F 22	19 35	4 14	5 5	22 13	2 1	21 42	1 38	27 7	3 40	19 44	0 31	15 24	2 9	0 16	0 42	16 57	0 10	21 1	2 12	22 19	22 8	22 14	3 15	2 32
S 23	19 21	0s37	5 4	21 53	2 2	21 48	1 35	27 6	3 39	19 41	0 31	15 25	2 9	0 16	0 42	16 57	0 10	21 1	2 12	22 18	22 8	22 13	3 16	2 32
S 24	19 7	5 30	4 47	21 31	2 3	21 53	1 32	27 5	3 38	19 37	0 31	15 26	2 8	0 15	0 42	16 56	0 10	21 1	2 12	22 17	22 7	22 13	3 17	2 32
M25	18 52	10 14	4 15	21 7	2 4	21 58	1 29	27 4	3 37	19 34	0 31	15 26	2 8	0 14	0 42	16 55	0 10	21 1	2 12	22 16	22 7	22 12	3 17	2 31
T 26	18 37	14 33	3 28	20 42	2 5	22 2	1 26	27 3	3 37	19 31	0 31	15 26	2 7	0 13	0 42	16 54	0 10	21 2	2 12	22 14	22 6	22 11	3 18	2 31
W27	18 21	18 12	2 28	20 15	2 4	22 5	1 23	27 2	3 36	19 27	0 31	15 27	2 7	0 12	0 42	16 54	0 10	21 2	2 12	22 12	22 6	22 11	3 19	2 31
T 28	18 6	20 51	1 18	19 46	2 3	22 9	1 20	27 1	3 35	19 24	0 31	15 27	2 7	0 11	0 42	16 53	0 10	21 2	2 12	22 11	22 5	22 10	3 20	2 31
F 29	17 49	22 15	0 2	19 16	2 3	22 11	1 17	27 0	3 33	19 20	0 31	15 28	2 7	0 10	0 42	16 52	0 10	21 2	2 12	22 9	22 5	22 10	3 21	2 31
S 30	17 33	22 11	1n15	18 45	2 1	22 13	1 13	26 59	3 32	19 17	0 31	15 28	2 7	0 9	0 42	16 52	0 10	21 2	2 12	22 8	22 5	22 9	3 21	2 31
S 31	17s16	20s34	2n28	18s12	1s59	22s14	1n10	26n58	3n31	19s13	0s31	15n29	2s 6	0s 8	0s42	16s51	0s10	21n 2	2s12	22s16	22s 4	22n 9	3n22	2n30

Julian Day Number = 2333572.5, Delta T = 25.41 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'54, Lahiri = 19°20'54Greg. Calendar

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ASTRODIENST EPHEMERIS for the year 1677
geocentric

FEBRUARY 1677 GC

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 46 58	12≈51'06	25♋43	17≈ 2	5♋50	26♊R42	6≈35	19♉ 3	1♈19	13≈55	8♍R13	11♍R51	10♐31	24♊ 6	2♈45	M 1
T 2	8 50 54	13°51'55	10≈30	18°50	7° 2	26°D41	6°50	19° 5	1°22	13°57	8♋12	11°43	10°28	24°13	2°47	T 2
W 3	8 54 51	14°52'43	25° 7	20°38	8°15	26♊42	7° 4	19° 7	1°24	13°59	8°11	11°33	10°25	24°19	2°50	W 3
T 4	8 58 47	15°53'29	9♓25	22°26	9°28	26°43	7°18	19° 8	1°27	14° 2	8°10	11°22	10°22	24°26	2°53	T 4
F 5	9 2 44	16°54'14	23°19	24°15	10°41	26°44	7°32	19°10	1°29	14° 4	8° 9	11°12	10°18	24°33	2°55	F 5
S 6	9 6 40	17°54'57	6♈47	26° 5	11°54	26°47	7°46	19°12	1°32	14° 6	8° 8	11° 3	10°15	24°39	2°58	S 6
S 7	9 10 37	18°55'39	19°48	27°54	13° 7	26°50	8° 1	19°14	1°35	14° 8	8° 7	10°57	10°12	24°46	3° 1	S 7
M 8	9 14 34	19°56'19	2♉24	29°43	14°20	26°54	8°15	19°16	1°37	14°11	8° 6	10°53	10° 9	24°53	3° 4	M 8
T 9	9 18 30	20°56'58	14°40	1♓32	15°33	26°59	8°29	19°19	1°40	14°13	8° 5	10°52	10° 6	24°59	3° 7	T 9
W10	9 22 27	21°57'34	26°41	3°21	16°46	27° 4	8°43	19°21	1°43	14°15	8° 5	10°D51	10° 2	25° 6	3°10	W10
T 11	9 26 23	22°58'09	8♊32	5° 9	17°59	27°10	8°57	19°23	1°46	14°17	8° 4	10°R52	9°59	25°12	3°13	T 11
F 12	9 30 20	23°58'42	20°19	6°55	19°12	27°17	9°11	19°26	1°49	14°20	8° 3	10°51	9°56	25°19	3°16	F 12
S 13	9 34 16	24°59'14	2♋ 7	8°41	20°25	27°24	9°25	19°29	1°52	14°22	8° 2	10°49	9°53	25°26	3°19	S 13
S 14	9 38 13	25°59'43	14° 1	10°24	21°39	27°32	9°39	19°31	1°55	14°24	8° 1	10°45	9°50	25°32	3°22	S 14
M15	9 42 9	27° 0'11	26° 3	12° 5	22°52	27°40	9°53	19°34	1°57	14°26	8° 1	10°37	9°47	25°39	3°25	M15
T 16	9 46 6	28° 0'37	8♌18	13°44	24° 5	27°49	10° 7	19°37	2° 0	14°29	8° 0	10°27	9°43	25°46	3°28	T 16
W17	9 50 3	29° 1'01	20°47	15°19	25°18	27°59	10°21	19°40	2° 3	14°31	7°59	10°15	9°40	25°52	3°31	W17
T 18	9 53 59	0♓ 1'24	3♍30	16°51	26°31	28°10	10°35	19°44	2° 6	14°33	7°58	10° 2	9°37	25°59	3°34	T 18
F 19	9 57 56	1° 1'44	16°26	18°18	27°45	28°20	10°49	19°47	2° 9	14°35	7°58	9°48	9°34	26° 6	3°37	F 19
S 20	10 1 52	2° 2'03	29°36	19°39	28°58	28°32	11° 2	19°50	2°12	14°38	7°57	9°36	9°31	26°12	3°41	S 20
S 21	10 5 49	3° 2'21	12♎56	20°56	0≈11	28°44	11°16	19°54	2°16	14°40	7°56	9°26	9°28	26°19	3°44	S 21
M22	10 9 45	4° 2'37	26°27	22° 5	1°25	28°56	11°30	19°57	2°19	14°42	7°56	9°19	9°24	26°26	3°47	M22
T 23	10 13 42	5° 2'51	10♏ 7	23° 8	2°38	29° 9	11°44	20° 1	2°22	14°44	7°55	9°15	9°21	26°32	3°50	T 23
W24	10 17 38	6° 3'04	23°55	24° 4	3°51	29°23	11°57	20° 5	2°25	14°46	7°54	9°13	9°18	26°39	3°54	W24
T 25	10 21 35	7° 3'16	7♐53	24°51	5° 5	29°37	12°11	20° 9	2°28	14°48	7°54	9°13	9°15	26°46	3°57	T 25
F 26	10 25 32	8° 3'26	21°59	25°30	6°18	29°51	12°24	20°13	2°31	14°51	7°53	9°13	9°12	26°52	4° 0	F 26
S 27	10 29 28	9° 3'34	6♋13	26° 0	7°32	0♋ 6	12°38	20°17	2°35	14°53	7°53	9°11	9° 8	26°59	4° 4	S 27
S 28	10 33 25	10♓ 3'41	20♋33	26♓22	8≈45	0♋22	12≈52	20♉21	2♈38	14≈55	7♋52	9♐ 7	9♐ 5	27♊ 6	4♈ 7	S 28

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
M 1	16s59	17s34	3n31	17s37	1s57	22s14	1n 7	26n56	3n30	19s10	0s31	15n30	2s 6	0s 7	0s42	16s51	0s10	21n 2	2s12	22s15	22s 4	22n 8	3n23	2n30
T 2	16 42	13 27	4 20	17 1	1 54	22 14	1 4	26 55	3 29	19 6	0 32	15 30	2 6	0 6	0 42	16 50	0 10	21 2	2 11	22 14	22 3	22 8	3 24	2 30
W 3	16 24	8 36	4 51	16 23	1 50	22 13	1 1	26 54	3 28	19 3	0 32	15 31	2 6	0 5	0 42	16 50	0 10	21 3	2 11	22 12	22 3	22 7	3 25	2 30
T 4	16 6	3 22	5 3	15 44	1 46	22 11	0 57	26 53	3 27	18 59	0 32	15 32	2 5	0 4	0 42	16 49	0 10	21 3	2 11	22 11	22 2	22 7	3 26	2 29
F 5	15 48	1n53	4 57	15 3	1 41	22 9	0 54	26 52	3 25	18 56	0 32	15 33	2 5	0 3	0 42	16 48	0 10	21 3	2 11	22 9	22 2	22 6	3 27	2 29
S 6	15 29	6 53	4 34	14 21	1 36	22 6	0 51	26 51	3 24	18 52	0 32	15 33	2 5	0 2	0 42	16 48	0 10	21 3	2 11	22 8	22 1	22 5	3 28	2 29
S 7	15 11	11 25	3 57	13 38	1 30	22 3	0 48	26 49	3 23	18 49	0 32	15 34	2 4	0 1	0 42	16 47	0 10	21 3	2 11	22 7	22 1	22 5	3 29	2 29
M 8	14 52	15 18	3 10	12 53	1 23	21 58	0 44	26 48	3 22	18 45	0 32	15 35	2 4	0n 1	0 42	16 46	0 11	21 3	2 11	22 7	22 1	22 4	3 30	2 29
T 9	14 32	18 25	2 15	12 8	1 16	21 54	0 41	26 47	3 20	18 42	0 32	15 36	2 4	0 3	0 42	16 46	0 11	21 3	2 11	22 7	22 0	22 4	3 31	2 29
W10	14 13	20 40	1 15	11 21	1 8	21 48	0 38	26 46	3 19	18 38	0 32	15 37	2 4	0 3	0 42	16 45	0 11	21 4	2 11	22 7	22 0	22 3	3 32	2 29
T 11	13 53	21 58	0 12	10 33	0 59	21 42	0 35	26 45	3 18	18 34	0 32	15 38	2 3	0 4	0 42	16 44	0 11	21 4	2 11	22 7	21 59	22 2	3 33	2 28
F 12	13 33	22 18	0s50	9 45	0 50	21 35	0 31	26 44	3 17	18 31	0 33	15 39	2 3	0 5	0 42	16 44	0 11	21 4	2 11	22 7	21 59	22 2	3 34	2 28
S 13	13 13	21 37	1 50	8 56	0 39	21 28	0 28	26 42	3 15	18 27	0 33	15 40	2 3	0 6	0 42	16 43	0 11	21 4	2 10	22 6	21 58	22 1	3 35	2 28
S 14	12 53	19 59	2 46	8 7	0 29	21 20	0 25	26 41	3 14	18 24	0 33	15 41	2 2	0 8	0 42	16 42	0 11	21 4	2 10	22 6	21 58	22 1	3 36	2 28
M15	12 32	17 27	3 35	7 18	0 17	21 11	0 22	26 40	3 13	18 20	0 33	15 42	2 2	0 9	0 41	16 42	0 11	21 4	2 10	22 5	21 57	22 0	3 37	2 28
T 16	12 11	14 7	4 15	6 29	0 5	21 2	0 18	26 39	3 11	18 16	0 33	15 43	2 2	0 10	0 41	16 41	0 11	21 4	2 10	22 3	21 57	21 59	3 38	2 28
W17	11 50	10 6	4 44	5 41	0n 8	20 52	0 15	26 38	3 10	18 13	0 33	15 44	2 2	0 11	0 41	16 41	0 11	21 5	2 10	22 1	21 56	21 59	3 39	2 27
T 18	11 29	5 36	4 59	4 53	0 21	20 41	0 12	26 37	3 9	18 9	0 33	15 45	2 1	0 12	0 41	16 40	0 11	21 5	2 10	21 59	21 56	21 58	3 40	2 27
F 19	11 8	0 47	4 58	4 6	0 35	20 30	0 9	26 36	3 7	18 5	0 33	15 46	2 1	0 14	0 41	16 39	0 11	21 5	2 10	21 58	21 55	21 57	3 42	2 27
S 20	10 46	4s10	4 43	3 21	0 49	20 19	0 6	26 34	3 6	18 2	0 33	15 47	2 1	0 15	0 41	16 39	0 11	21 5	2 10	21 56	21 55	21 57	3 43	2 27
S 21	10 24	8 58	4 11	2 38	1 3	20 6	0 3	26 33	3 5	17 58	0 34	15 48	2 1	0 16	0 41	16 38	0 11	21 5	2 10	21 54	21 54	21 56	3 44	2 27
M22	10 3	13 25	3 25	1 57	1 18	19 53	0s 1	26 32	3 4	17 54	0 34	15 50	2 0	0 17	0 41	16 37	0 11	21 5	2 9	21 53	21 54	21 55	3 45	2 27
T 23	9 41	17 12	2 27	1 19	1 32	19 40	0 4	26 31	3 2	17 50	0 34	15 51	2 0	0 19	0 41	16 37	0 11	21 5	2 9	21 53	21 53	21 55	3 46	2 27
W24	9 18	20 5	1 20	0 44	1 47	19 26	0 7	26 30	3 1	17 47	0 34	15 52	2 0	0 20	0 41	16 36	0 11	21 6	2 9	21 52	21 53	21 54	3 47	2 26
T 25	8 56	21 47	0 7	0 12	2 1	19 11	0 10	26 29	3 0	17 43	0 34	15 53	2 0	0 21	0 41	16 35	0 11	21 6	2 9	21 52	21 53	21 53	3 49	2 26
F 26	8 34	22 7	1n 7	0n17	2 15	18 56	0 13	26 27	2 58	17 39	0 34	15 55	1 59	0 22	0 41	16 35	0 11	21 6	2 9	21 52	21 52	21 53	3 50	2 26
S 27	8 11	21 3	2 18	0 41	2 29	18 40	0 16	26 26	2 57	17 36	0 34	15 56	1 59	0 24	0 41	16 34	0 11	21 6	2 9	21 52	21 52	21 52	3 51	2 26
S 28	7s49	18s37	3n20	1n 2	2n42	18s24	0s19	26n25	2n56	17s32	0s34	15n57	1s59	0n25	0s41	16s34	0s11	21n 6	2s 9	21s51	21s51	21n51	3n52	2n26

ASTRODIENST EPHEMERIS for the year 1677
geocentric

MARCH 1677 GC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚷	⚸	Day
M 1	10 37 21	11°♓ 3'47	4≈57	26♓34	9≈58	0♋38	13≈ 5	20♉25	2°♈41	14≈57	7°R52	9°R 1	9♐12	27♊12	4°♈11	M 1
T 2	10 41 18	12° 3'50	19°18	26°R36	11°12	0°54	13°18	20°29	2°44	14°59	7♋51	8♐51	8°59	27°19	4°14	T 2
W 3	10 45 14	13° 3'52	3♓32	26°30	12°25	1°11	13°32	20°34	2°47	15° 1	7°51	8°39	8°56	27°26	4°17	W 3
T 4	10 49 11	14° 3'52	17°33	26°15	13°39	1°28	13°45	20°38	2°51	15° 3	7°51	8°26	8°53	27°32	4°21	T 4
F 5	10 53 7	15° 3'50	1°♈16	25°52	14°52	1°46	13°58	20°43	2°54	15° 5	7°50	8°14	8°49	27°39	4°24	F 5
S 6	10 57 4	16° 3'45	14°37	25°20	16° 6	2° 4	14°12	20°48	2°57	15° 7	7°50	8° 4	8°46	27°45	4°28	S 6
S 7	11 1 1	17° 3'39	27°35	24°42	17°19	2°22	14°25	20°52	3° 1	15° 9	7°49	7°55	8°43	27°52	4°31	S 7
M 8	11 4 57	18° 3'31	10♉12	23°58	18°33	2°41	14°38	20°57	3° 4	15°11	7°49	7°50	8°40	27°59	4°35	M 8
T 9	11 8 54	19° 3'20	22°29	23°10	19°46	3° 0	14°51	21° 2	3° 7	15°13	7°49	7°47	8°37	28° 5	4°39	T 9
W10	11 12 50	20° 3'07	4♊32	22°17	21° 0	3°20	15° 4	21° 7	3°11	15°15	7°48	7°D46	8°33	28°12	4°42	W10
T 11	11 16 47	21° 2'52	16°25	21°22	22°14	3°40	15°17	21°12	3°14	15°17	7°48	7°R46	8°30	28°19	4°46	T 11
F 12	11 20 43	22° 2'35	28°13	20°26	23°27	4° 0	15°30	21°17	3°17	15°19	7°48	7°46	8°27	28°25	4°49	F 12
S 13	11 24 40	23° 2'16	10♋ 3	19°29	24°41	4°21	15°42	21°23	3°21	15°21	7°48	7°45	8°24	28°32	4°53	S 13
S 14	11 28 36	24° 1'54	21°58	18°34	25°54	4°42	15°55	21°28	3°24	15°23	7°48	7°42	8°21	28°39	4°57	S 14
M15	11 32 33	25° 1'30	4♌ 5	17°41	27° 8	5° 3	16° 8	21°33	3°28	15°25	7°47	7°36	8°18	28°45	5° 0	M15
T 16	11 36 30	26° 1'03	16°27	16°51	28°21	5°25	16°20	21°39	3°31	15°26	7°47	7°27	8°14	28°52	5° 4	T 16
W17	11 40 26	27° 0'35	29° 6	16° 6	29°35	5°46	16°33	21°44	3°34	15°28	7°47	7°17	8°11	28°59	5° 7	W17
T 18	11 44 23	28° 0'04	12♍ 4	15°24	0°♓48	6° 9	16°45	21°50	3°38	15°30	7°47	7° 5	8° 8	29° 5	5°11	T 18
F 19	11 48 19	28°59'31	25°20	14°48	2° 2	6°31	16°58	21°56	3°41	15°32	7°47	6°53	8° 5	29°12	5°15	F 19
S 20	11 52 16	29°58'55	8♎53	14°18	3°16	6°54	17°10	22° 1	3°45	15°34	7°47	6°42	8° 2	29°19	5°18	S 20
S 21	11 56 12	0♈58'18	22°38	13°53	4°29	7°17	17°22	22° 7	3°48	15°35	7°D47	6°34	7°59	29°25	5°22	S 21
M22	12 0 9	1°57'39	6♏34	13°35	5°43	7°41	17°34	22°13	3°52	15°37	7°47	6°28	7°55	29°32	5°26	M22
T 23	12 4 5	2°56'58	20°36	13°22	6°56	8° 4	17°47	22°19	3°55	15°39	7°47	6°24	7°52	29°39	5°29	T 23
W24	12 8 2	3°56'16	4♐42	13°15	8°10	8°28	17°59	22°25	3°58	15°41	7°47	6°D23	7°49	29°45	5°33	W24
T 25	12 11 58	4°55'31	18°50	13°D14	9°23	8°52	18°11	22°31	4° 2	15°42	7°47	6°24	7°46	29°52	5°37	T 25
F 26	12 15 55	5°54'45	2♑58	13°18	10°37	9°17	18°22	22°37	4° 5	15°44	7°47	6°R24	7°43	29°59	5°40	F 26
S 27	12 19 52	6°53'57	17° 5	13°28	11°51	9°41	18°34	22°43	4° 9	15°45	7°47	6°24	7°39	0♋ 5	5°44	S 27
S 28	12 23 48	7°53'08	1≈ 9	13°43	13° 4	10° 6	18°46	22°50	4°12	15°47	7°48	6°22	7°36	0°12	5°48	S 28
M29	12 27 45	8°52'16	15°11	14° 3	14°18	10°32	18°57	22°56	4°16	15°49	7°48	6°17	7°33	0°19	5°51	M29
T 30	12 31 41	9°51'23	29° 6	14°27	15°32	10°57	19° 9	23° 2	4°19	15°50	7°48	6°10	7°30	0°25	5°55	T 30
W31	12 35 38	10♈50'28	12♓52	14♓57	16♓45	11♋23	19≈20	23♉ 9	4♈22	15≈52	7♋48	6♐ 1	7♐27	0♋32	5♈59	W31

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
M 1	7s26	15 s 1	4n10	1n17	2n54	18 s 7	0s21	26n23	2n55	17s28	0s35	15n59	1s58	0n26	0s41	16s33	0s11	21n 6	2s 9	21s50	21s51	21n51	3n54	2n26
T 2	7 3	10 34	4 43	1 28	3 5	17 50	0 24	26 22	2 53	17 25	0 35	16 0	1 58	0 28	0 41	16 32	0 11	21 6	2 9	21 49	21 50	21 50	3 55	2 26
W 3	6 40	5 34	4 59	1 35	3 14	17 32	0 27	26 21	2 52	17 21	0 35	16 2	1 58	0 29	0 41	16 32	0 11	21 7	2 9	21 47	21 50	21 49	3 56	2 26
T 4	6 17	0 22	4 57	1 36	3 23	17 14	0 30	26 19	2 51	17 17	0 35	16 3	1 58	0 30	0 41	16 31	0 11	21 7	2 8	21 45	21 49	21 48	3 57	2 26
F 5	5 54	4n44	4 37	1 33	3 29	16 55	0 32	26 18	2 50	17 13	0 35	16 4	1 57	0 32	0 41	16 31	0 11	21 7	2 8	21 43	21 49	21 48	3 59	2 25
S 6	5 30	9 29	4 2	1 25	3 34	16 36	0 35	26 16	2 48	17 10	0 35	16 6	1 57	0 33	0 41	16 30	0 11	21 7	2 8	21 41	21 48	21 47	4 0	2 25
S 7	5 7	13 40	3 16	1 13	3 37	16 16	0 38	26 15	2 47	17 6	0 35	16 7	1 57	0 34	0 41	16 30	0 11	21 7	2 8	21 40	21 48	21 46	4 1	2 25
M 8	4 44	17 8	2 21	0 57	3 39	15 56	0 40	26 13	2 46	17 2	0 36	16 9	1 57	0 36	0 41	16 29	0 11	21 7	2 8	21 39	21 47	21 46	4 3	2 25
T 9	4 20	19 43	1 20	0 37	3 38	15 35	0 43	26 12	2 45	16 59	0 36	16 10	1 57	0 37	0 41	16 28	0 11	21 7	2 8	21 39	21 47	21 45	4 4	2 25
W10	3 57	21 22	0 17	0 14	3 35	15 14	0 45	26 10	2 44	16 55	0 36	16 12	1 56	0 38	0 41	16 28	0 11	21 7	2 8	21 39	21 46	21 44	4 5	2 25
T 11	3 33	22 2	0s46	0s12	3 30	14 53	0 48	26 8	2 42	16 51	0 36	16 13	1 56	0 40	0 41	16 27	0 11	21 8	2 8	21 39	21 46	21 43	4 7	2 25
F 12	3 10	21 42	1 46	0 41	3 24	14 31	0 50	26 6	2 41	16 48	0 36	16 15	1 56	0 41	0 41	16 27	0 11	21 8	2 7	21 39	21 45	21 43	4 8	2 25
S 13	2 46	20 24	2 43	1 10	3 15	14 9	0 52	26 4	2 40	16 44	0 36	16 17	1 56	0 42	0 41	16 26	0 11	21 8	2 7	21 38	21 45	21 42	4 9	2 25
S 14	2 22	18 12	3 32	1 41	3 5	13 46	0 55	26 3	2 39	16 40	0 36	16 18	1 55	0 44	0 41	16 26	0 11	21 8	2 7	21 38	21 44	21 41	4 11	2 25
M15	1 59	15 10	4 13	2 12	2 54	13 23	0 57	26 1	2 38	16 37	0 37	16 20	1 55	0 45	0 41	16 25	0 11	21 8	2 7	21 37	21 44	21 40	4 12	2 24
T 16	1 35	11 26	4 42	2 43	2 41	12 59	0 59	25 59	2 37	16 33	0 37	16 21	1 55	0 46	0 41	16 25	0 11	21 8	2 7	21 35	21 43	21 40	4 13	2 24
W17	1 11	7 8	4 59	3 13	2 28	12 36	1 1	25 56	2 35	16 29	0 37	16 23	1 55	0 48	0 41	16 24	0 11	21 8	2 7	21 34	21 43	21 39	4 15	2 24
T 18	0 48	2 24	5 1	3 42	2 14	12 11	1 3	25 54	2 34	16 26	0 37	16 25	1 54	0 49	0 41	16 23	0 11	21 8	2 7	21 32	21 42	21 38	4 16	2 24
F 19	0 24	2s32	4 47	4 10	1 59	11 47	1 5	25 52	2 33	16 22	0 37	16 26	1 54	0 50	0 41	16 23	0 11	21 9	2 7	21 30	21 42	21 37	4 17	2 24
S 20	0 0	7 27	4 17	4 36	1 44	11 22	1 7	25 50	2 32	16 19	0 37	16 28	1 54	0 52	0 41	16 22	0 11	21 9	2 7	21 28	21 41	21 36	4 19	2 24
S 21	0n23	12 5	3 31	4 59	1 28	10 57	1 9	25 47	2 31	16 15	0 37	16 30	1 54	0 53	0 41	16 21	0 11	21 9	2 7	21 27	21 41	21 36	4 20	2 24
M22	0 47	16 7	2 32	5 21	1 13	10 32	1 11	25 45	2 30	16 11	0 38	16 31	1 54	0 55	0 41	16 21	0 11	21 9	2 6	21 25	21 40	21 35	4 22	2 24
T 23	1 10	19 16	1 23	5 40	0 57	10 6	1 12	25 42	2 29	16 8	0 38	16 33	1 53	0 56	0 41	16 21	0 11	21 9	2 6	21 25	21 40	21 34	4 23	2 24
W24	1 34	21 16	0 9	5 57	0 42	9 40	1 14	25 40	2 28	16 4	0 38	16 35	1 53	0 57	0 41	16 20	0 11	21 9	2 6	21 25	21 39	21 33	4 24	2 24
T 25	1 58	21 55	1n 6	6 11	0 27	9 14	1 16	25 37	2 26	16 1	0 38	16 37	1 53	0 59	0 41	16 19	0 11	21 9	2 6	21 25	21 39	21 32	4 26	2 24
F 26	2 21	21 10	2 17	6 23	0 13	8 47	1 17	25 34	2 25	15 57	0 38	16 38	1 53	1 0	0 41	16 19	0 11	21 10	2 6	21 25	21 38	21 32	4 27	2 24
S 27	2 45	19 5	3 20	6 32	0s 1	8 20	1 19	25 31	2 24	15 54	0 38	16 40	1 53	1 1	0 41	16 19	0 11	21 25	2 6	21 37	21 31		4 29	2 23
S 28	3 8	15 52	4 10	6 39	0 15	7 53	1 20	25 29	2 23	15 50	0 39	16 42	1 52	1 3	0 41	16 18	0 11	21 10	2 6	21 25	21 37	21 30	4 30	2 23
M29	3 31	11 46	4 45	6 43	0 28	7 26	1 21	25 26	2 22	15 47	0 39	16 44	1 52	1 4	0 41	16 18	0 11	21 10	2 6	21 24	21 36	21 29	4 31	2 23
T 30	3 55	7 4	5 3	6 45	0 40	6 59	1 22	25 22	2 21	15 43	0 39	16 45	1 52	1 6	0 41	16 18	0 11	21 10	2 6	21 24	21 36	21 28	4 33	2 23
W31	4n18	2s 4	5n 3	6s45	0s52	6s31	1s24	25n19	2n20	15s40	0s39	16n47	1s52	1n 7	0s41	16s17	0s11	21n10	2s 6	21s21	21s35	21n27	4n34	2n23

Julian Day Number = 2333631.5, Delta T = 25.31 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'02, Lahiri = 19°21'03Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1677
geocentric

APRIL 1677 GC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚷	⚸	Day
T 1	12 39 34	11♈49'30	26♓27	15♓30	17♓59	11♋48	19≈32	23♉15	4♈26	15≈53	7♋48	5♐R52	7♐24	0♋38	6♈ 2	T 1
F 2	12 43 31	12°48'31	9♈47	16° 8	19°12	12°15	19°43	23°22	4°29	15°55	7°49	5♐43	7°20	0°45	6° 6	F 2
S 3	12 47 27	13°47'30	22°51	16°49	20°26	12°41	19°54	23°28	4°33	15°56	7°49	5°35	7°17	0°52	6°10	S 3
S 4	12 51 24	14°46'27	5♉37	17°34	21°40	13° 7	20° 5	23°35	4°36	15°57	7°49	5°29	7°14	0°58	6°13	S 4
M 5	12 55 21	15°45'21	18° 6	18°23	22°53	13°34	20°16	23°42	4°39	15°59	7°50	5°25	7°11	1° 5	6°17	M 5
T 6	12 59 17	16°44'14	0♊20	19°15	24° 7	14° 1	20°27	23°48	4°43	16° 0	7°50	5♐D23	7° 8	1°12	6°20	T 6
W 7	13 3 14	17°43'04	12°21	20° 9	25°20	14°28	20°38	23°55	4°46	16° 1	7°50	5°23	7° 4	1°18	6°24	W 7
T 8	13 7 10	18°41'52	24°14	21° 7	26°34	14°55	20°49	24° 2	4°50	16° 3	7°51	5°24	7° 1	1°25	6°28	T 8
F 9	13 11 7	19°40'38	6♋ 3	22° 8	27°48	15°23	20°59	24° 9	4°53	16° 4	7°51	5°26	6°58	1°32	6°31	F 9
S 10	13 15 3	20°39'22	17°53	23°12	29° 1	15°51	21°10	24°16	4°56	16° 5	7°52	5♐R27	6°55	1°38	6°35	S 10
S 11	13 19 0	21°38'03	29°50	24°18	0♈15	16°18	21°20	24°23	5° 0	16° 6	7°52	5°26	6°52	1°45	6°38	S 11
M12	13 22 56	22°36'42	11♌58	25°26	1°28	16°46	21°30	24°30	5° 3	16° 8	7°53	5°24	6°49	1°52	6°42	M12
T 13	13 26 53	23°35'19	24°22	26°37	2°42	17°15	21°40	24°37	5° 6	16° 9	7°53	5°20	6°45	1°58	6°46	T 13
W14	13 30 50	24°33'54	7♍ 5	27°50	3°56	17°43	21°50	24°44	5° 9	16°10	7°54	5°15	6°42	2° 5	6°49	W14
T 15	13 34 46	25°32'26	20°10	29° 6	5° 9	18°12	22° 0	24°51	5°13	16°11	7°54	5° 9	6°39	2°12	6°53	T 15
F 16	13 38 43	26°30'56	3♎38	0♈23	6°23	18°40	22°10	24°58	5°16	16°12	7°55	5° 3	6°36	2°18	6°56	F 16
S 17	13 42 39	27°29'25	17°28	1°43	7°36	19° 9	22°20	25° 5	5°19	16°13	7°56	4°57	6°33	2°25	7° 0	S 17
S 18	13 46 36	28°27'51	1♏35	3° 5	8°50	19°38	22°29	25°13	5°22	16°14	7°56	4°52	6°30	2°32	7° 3	S 18
M19	13 50 32	29°26'16	15°56	4°29	10° 3	20° 7	22°39	25°20	5°26	16°15	7°57	4°49	6°26	2°38	7° 6	M19
T 20	13 54 29	0♉24'39	0♐25	5°54	11°17	20°37	22°48	25°27	5°29	16°16	7°58	4♐D48	6°23	2°45	7°10	T 20
W21	13 58 25	1°23'00	14°56	7°22	12°31	21° 6	22°57	25°35	5°32	16°17	7°58	4°48	6°20	2°52	7°13	W21
T 22	14 2 22	2°21'19	29°25	8°52	13°44	21°36	23° 6	25°42	5°35	16°18	7°59	4°49	6°17	2°58	7°17	T 22
F 23	14 6 19	3°19'37	13♑48	10°23	14°58	22° 5	23°15	25°49	5°38	16°19	8° 0	4°51	6°14	3° 5	7°20	F 23
S 24	14 10 15	4°17'54	28° 1	11°57	16°11	22°35	23°24	25°57	5°41	16°19	8° 0	4♐R51	6°10	3°12	7°23	S 24
S 25	14 14 12	5°16'09	12≈ 2	13°32	17°25	23° 5	23°33	26° 4	5°45	16°20	8° 1	4°51	6° 7	3°18	7°27	S 25
M26	14 18 8	6°14'22	25°52	15° 9	18°38	23°35	23°41	26°12	5°48	16°21	8° 2	4°50	6° 4	3°25	7°30	M26
T 27	14 22 5	7°12'34	9♓29	16°48	19°52	24° 5	23°50	26°19	5°51	16°22	8° 3	4°48	6° 1	3°32	7°33	T 27
W28	14 26 1	8°10'44	22°52	18°29	21° 6	24°36	23°58	26°27	5°54	16°22	8° 4	4°44	5°58	3°38	7°37	W28
T 29	14 29 58	9° 8'53	6♈ 2	20°12	22°19	25° 6	24° 6	26°34	5°57	16°23	8° 5	4°40	5°55	3°45	7°40	T 29
F 30	14 33 54	10♉ 7'00	18♈58	21♈56	23♈33	25♋37	24≈14	26♉42	6♈ 0	16≈24	8♋ 5	4♐36	5♐51	3♋52	7♈43	F 30

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
T 1	4n41	2n58	4n46	6s42	1s 4	6s 4	1s25	25n16	2n19	15s37	0s39	16n49	1s52	1n 8	0s41	16s17	0s11	21n10	2s 5	21s19	21s35	21n27	4n36	2n23
F 2	5 4	7 46	4 14	6 37	1 14	5 36	1 26	25 12	2 18	15 33	0 40	16 51	1 52	1 10	0 41	16 16	0 11	21 10	2 5	21 18	21 34	21 26	4 37	2 23
S 3	5 27	12 7	3 28	6 30	1 24	5 8	1 27	25 9	2 17	15 30	0 40	16 53	1 51	1 11	0 41	16 16	0 11	21 10	2 5	21 16	21 34	21 25	4 38	2 23
S 4	5 50	15 50	2 33	6 22	1 34	4 39	1 28	25 5	2 16	15 27	0 40	16 54	1 51	1 12	0 41	16 15	0 11	21 10	2 5	21 15	21 33	21 24	4 40	2 23
M 5	6 13	18 43	1 32	6 11	1 43	4 11	1 28	25 2	2 15	15 23	0 40	16 56	1 51	1 14	0 41	16 15	0 11	21 10	2 5	21 15	21 33	21 23	4 41	2 23
T 6	6 35	20 42	0 27	5 58	1 51	3 42	1 29	24 58	2 14	15 20	0 40	16 58	1 51	1 15	0 41	16 15	0 11	21 10	2 5	21 14	21 32	21 22	4 43	2 23
W 7	6 58	21 42	0s38	5 43	1 59	3 14	1 30	24 54	2 13	15 17	0 40	17 0	1 51	1 16	0 41	16 14	0 11	21 10	2 5	21 14	21 32	21 21	4 44	2 23
T 8	7 20	21 41	1 40	5 27	2 6	2 45	1 31	24 50	2 12	15 13	0 41	17 2	1 50	1 18	0 41	16 14	0 11	21 11	2 5	21 14	21 31	21 21	4 45	2 23
F 9	7 43	20 42	2 38	5 9	2 12	2 16	1 31	24 46	2 11	15 10	0 41	17 4	1 50	1 19	0 41	16 14	0 11	21 11	2 5	21 15	21 31	21 20	4 47	2 23
S 10	8 5	18 49	3 30	4 49	2 18	1 47	1 32	24 41	2 10	15 7	0 41	17 5	1 50	1 20	0 41	16 13	0 11	21 11	2 4	21 15	21 30	21 19	4 48	2 23
S 11	8 27	16 6	4 13	4 28	2 23	1 18	1 32	24 37	2 9	15 4	0 41	17 7	1 50	1 22	0 41	16 13	0 11	21 11	2 4	21 15	21 30	21 18	4 49	2 23
M12	8 49	12 40	4 45	4 5	2 28	0 49	1 32	24 33	2 8	15 1	0 41	17 9	1 50	1 23	0 41	16 13	0 11	21 11	2 4	21 14	21 29	21 17	4 51	2 23
T 13	9 10	8 38	5 4	3 40	2 32	0 20	1 33	24 28	2 7	14 58	0 42	17 11	1 50	1 24	0 41	16 12	0 11	21 11	2 4	21 14	21 29	21 16	4 52	2 23
W14	9 32	4 8	5 10	3 14	2 35	0n 9	1 33	24 23	2 6	14 55	0 42	17 13	1 50	1 26	0 41	16 12	0 11	21 11	2 4	21 13	21 28	21 15	4 54	2 23
T 15	9 53	0s42	5 0	2 47	2 38	0 38	1 33	24 19	2 5	14 52	0 42	17 15	1 49	1 27	0 41	16 11	0 11	21 12	2 4	21 27	21 14	4 55	2 23
F 16	10 15	5 37	4 33	2 18	2 41	1 7	1 33	24 14	2 4	14 49	0 42	17 16	1 49	1 28	0 41	16 11	0 11	21 11	2 4	21 11	21 27	21 13	4 56	2 23
S 17	10 36	10 24	3 49	1 48	2 42	1 36	1 33	24 9	2 3	14 46	0 42	17 18	1 49	1 29	0 41	16 11	0 12	21 11	2 4	21 9	21 26	21 13	4 58	2 23
S 18	10 57	14 43	2 51	1 16	2 43	2 5	1 33	24 4	2 3	14 43	0 43	17 20	1 49	1 31	0 41	16 11	0 12	21 11	2 4	21 11	21 26	21 12	4 59	2 23
M19	11 18	18 15	1 41	0 44	2 44	2 34	1 33	23 58	2 2	14 40	0 43	17 22	1 49	1 32	0 41	16 10	0 12	21 11	2 3	21 8	21 25	21 11	5 0	2 22
T 20	11 38	20 40	0 24	0 10	2 44	3 3	1 33	23 53	2 1	14 37	0 43	17 24	1 49	1 33	0 41	16 10	0 12	21 11	2 3	21 25	21 10	5 2	2 22
W21	11 59	21 43	0n55	0n26	2 44	3 32	1 32	23 48	2 0	14 34	0 43	17 26	1 49	1 34	0 41	16 10	0 12	21 11	2 3	21 8	21 24	21 9	5 3	2 22
T 22	12 19	21 18	2 11	1 2	2 42	4 1	1 32	23 42	1 59	14 31	0 43	17 28	1 48	1 36	0 41	16 9	0 12	21 11	2 3	21 8	21 24	21 8	5 4	2 22
F 23	12 39	19 30	3 17	1 39	2 41	4 30	1 32	23 36	1 58	14 29	0 44	17 29	1 48	1 37	0 41	16 9	0 12	21 12	2 3	21 8	21 23	21 7	5 6	2 22
S 24	12 58	16 30	4 11	2 18	2 39	4 59	1 31	23 31	1 57	14 26	0 44	17 31	1 48	1 38	0 41	16 9	0 12	21 12	2 3	21 9	21 23	21 6	5 7	2 22
S 25	13 18	12 35	4 49	2 57	2 36	5 27	1 30	23 25	1 56	14 23	0 44	17 33	1 48	1 39	0 41	16 9	0 12	21 12	2 3	21 22	21 5	5 8	2 22
M26	13 37	8 3	5 10	3 38	2 33	5 56	1 30	23 19	1 55	14 21	0 44	17 35	1 48	1 41	0 41	16 9	0 12	21 8	3 21	21 21	21 4	5 10	2 22
T 27	13 57	3 12	5 12	4 19	2 29	6 24	1 29	23 12	1 54	14 18	0 44	17 37	1 48	1 42	0 41	16 9	0 12	21 8	3 21	21 21	21 3	5 11	2 22
W28	14 15	1n44	4 58	5 2	2 25	6 53	1 28	23 6	1 54	14 15	0 45	17 39	1 48	1 43	0 41	16 9	0 12	21 7	3 21	21 20	21 2	5 12	2 22
T 29	14 34	6 38	4 45	5 45	2 22	7 21	1 28	23 0	1 53	14 13	0 45	17 41	1 48	1 44	0 41	16 9	0 12	21 7	3 21	21 19	21 1	5 14	2 22
F 30	14n53	10n54	3n45	6n29	2s14	7n49	1s27	22n53	1n52	14s10	0s45	17n42	1s48	1n45	0s41	16s 8	0s12	21n12	2s 2	21s 6	21s19	21n 0	5n15	2n22

Julian Day Number = 2333662.5, Delta T = 25.26 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'06, Lahiri = 19°21'07Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1677
geocentric

MAY 1677 GC   00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☋	⚸	⚷	Day
S 1	14 37 51	11♉ 5'06	1♌40	23♈43	24♈46	26♋ 8	24♒22	26♉50	6♈ 3	16♒24	8♋ 6	4♍R33	5♐48	3♋58	7♈46	S 1
S 2	14 41 47	12° 3'10	14° 9	25°31	26° 0	26°39	24°30	26°57	6° 6	16°25	8° 7	4♍30	5°45	4° 5	7°50	S 2
M 3	14 45 44	13° 1'13	26°26	27°21	27°13	27°10	24°38	27° 5	6° 9	16°25	8° 8	4°29	5°42	4°12	7°53	M 3
T 4	14 49 41	13°59'14	8♊32	29°13	28°27	27°41	24°45	27°13	6°11	16°26	8° 9	4°D29	5°39	4°18	7°56	T 4
W 5	14 53 37	14°57'13	20°28	1♉ 7	29°41	28°12	24°53	27°20	6°14	16°26	8°10	4°30	5°36	4°25	7°59	W 5
T 6	14 57 34	15°55'10	2♋19	3° 3	0♉54	28°43	25° 0	27°28	6°17	16°27	8°11	4°31	5°32	4°32	8° 2	T 6
F 7	15 1 30	16°53'06	14° 8	5° 1	2° 8	29°15	25° 7	27°36	6°20	16°27	8°12	4°33	5°29	4°38	8° 5	F 7
S 8	15 5 27	17°51'00	25°58	7° 0	3°21	29°46	25°14	27°43	6°23	16°27	8°13	4°34	5°26	4°45	8° 8	S 8
S 9	15 9 23	18°48'52	7♌54	9° 1	4°35	0♌18	25°20	27°51	6°25	16°28	8°14	4°35	5°23	4°52	8°11	S 9
M10	15 13 20	19°46'42	20° 1	11° 4	5°48	0°50	25°27	27°59	6°28	16°28	8°15	4°R35	5°20	4°58	8°14	M10
T 11	15 17 17	20°44'31	2♍24	13° 9	7° 2	1°22	25°33	28° 7	6°31	16°28	8°16	4°35	5°16	5° 5	8°17	T 11
W12	15 21 13	21°42'18	15° 6	15°15	8°15	1°54	25°40	28°14	6°34	16°29	8°18	4°34	5°13	5°12	8°20	W12
T 13	15 25 10	22°40'03	28°11	17°22	9°29	2°26	25°46	28°22	6°36	16°29	8°19	4°33	5°10	5°18	8°23	T 13
F 14	15 29 6	23°37'46	11♎41	19°31	10°42	2°58	25°52	28°30	6°39	16°29	8°20	4°31	5° 7	5°25	8°25	F 14
S 15	15 33 3	24°35'28	25°36	21°40	11°56	3°30	25°58	28°38	6°41	16°29	8°21	4°30	5° 4	5°32	8°28	S 15
S 16	15 36 59	25°33'08	9♏55	23°51	13° 9	4° 3	26° 3	28°45	6°44	16°29	8°22	4°29	5° 1	5°38	8°31	S 16
M17	15 40 56	26°30'48	24°33	26° 2	14°23	4°35	26° 9	28°53	6°46	16°29	8°23	4°29	4°57	5°45	8°34	M17
T 18	15 44 52	27°28'25	9♐23	28°14	15°37	5° 8	26°14	29° 1	6°49	16°29	8°24	4°D29	4°54	5°52	8°36	T 18
W19	15 48 49	28°26'02	24°19	0♊25	16°50	5°40	26°19	29° 9	6°51	16°R29	8°26	4°29	4°51	5°58	8°39	W19
T 20	15 52 46	29°23'38	9♑12	2°37	18° 4	6°13	26°24	29°17	6°54	16°29	8°27	4°29	4°48	6° 5	8°42	T 20
F 21	15 56 42	0♊21'12	23°56	4°48	19°17	6°46	26°29	29°24	6°56	16°29	8°28	4°30	4°45	6°12	8°44	F 21
S 22	16 0 39	1°18'46	8♒24	6°58	20°31	7°19	26°34	29°32	6°58	16°29	8°29	4°30	4°42	6°18	8°47	S 22
S 23	16 4 35	2°16'19	22°34	9° 8	21°44	7°52	26°38	29°40	7° 1	16°29	8°31	4°30	4°38	6°25	8°49	S 23
M24	16 8 32	3°13'50	6♓23	11°16	22°58	8°25	26°42	29°48	7° 3	16°29	8°32	4°R30	4°35	6°32	8°52	M24
T 25	16 12 28	4°11'21	19°52	13°23	24°11	8°58	26°46	29°56	7° 5	16°29	8°33	4°D30	4°32	6°38	8°54	T 25
W26	16 16 25	5° 8'51	3♈ 2	15°28	25°25	9°31	26°50	0♊ 3	7° 7	16°28	8°34	4°30	4°29	6°45	8°56	W26
T 27	16 20 21	6° 6'21	15°54	17°31	26°38	10° 4	26°54	0°11	7° 9	16°28	8°36	4°30	4°26	6°52	8°59	T 27
F 28	16 24 18	7° 3'49	28°31	19°33	27°52	10°38	26°58	0°19	7°12	16°28	8°37	4°30	4°22	6°58	9° 1	F 28
S 29	16 28 14	8° 1'17	10♉55	21°32	29° 5	11°11	27° 1	0°27	7°14	16°27	8°38	4°31	4°19	7° 5	9° 3	S 29
S 30	16 32 11	8°58'44	23° 8	23°29	0♊19	11°45	27° 4	0°35	7°16	16°27	8°40	4°31	4°16	7°12	9° 6	S 30
M31	16 36 8	9♊56'10	5♊11	25♊23	1♊33	12♌18	27♒ 7	0♊42	7♈18	16♒27	8♋41	4♍R31	4♐13	7♋18	9♈ 8	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☋	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	15n11	14n45	2n51	7n14	2s 9	8n17	1s26	22n47	1n51	14s 8	0s45	17n44	1s47	1n46	0s41	16s 8	0s12	21n12	2s 2	21s 5	21s19	20n59	5n16	2n22
S 2	15 29	17 52	1 50	7 59	2 2	8 44	1 25	22 40	1 50	14 6	0 46	17 46	1 47	1 48	0 41	16 8	0 12	21 12	2 2	21 5	21 18	20 58	5 17	2 22
M 3	15 46	20 6	0 44	8 45	1 55	9 12	1 24	22 33	1 49	14 3	0 46	17 48	1 47	1 49	0 41	16 8	0 12	21 12	2 2	21 4	21 18	20 57	5 19	2 22
T 4	16 4	21 24	0s22	9 32	1 48	9 39	1 23	22 26	1 48	14 1	0 46	17 50	1 47	1 50	0 41	16 8	0 12	21 12	2 2	21 4	21 17	20 56	5 20	2 22
W 5	16 21	21 41	1 27	10 19	1 40	10 6	1 22	22 19	1 48	13 59	0 46	17 52	1 47	1 51	0 41	16 7	0 12	21 12	2 2	21 5	21 16	20 55	5 21	2 22
T 6	16 38	21 0	2 28	11 6	1 32	10 33	1 20	22 12	1 47	13 57	0 47	17 53	1 47	1 52	0 41	16 7	0 12	21 12	2 2	21 5	21 16	20 54	5 22	2 22
F 7	16 55	19 23	3 22	11 54	1 24	11 0	1 19	22 4	1 46	13 54	0 47	17 55	1 47	1 53	0 41	16 7	0 12	21 12	2 2	21 5	21 15	20 53	5 24	2 22
S 8	17 11	16 56	4 8	12 42	1 15	11 26	1 18	21 57	1 45	13 52	0 47	17 57	1 47	1 54	0 41	16 7	0 12	21 12	2 2	21 5	21 15	20 52	5 25	2 22
S 9	17 27	13 45	4 43	13 30	1 5	11 52	1 16	21 49	1 44	13 50	0 47	17 59	1 47	1 55	0 41	16 7	0 12	21 12	2 2	21 6	21 14	20 51	5 26	2 22
M10	17 43	9 59	5 7	14 18	0 56	12 18	1 15	21 41	1 44	13 48	0 47	18 1	1 47	1 56	0 41	16 7	0 12	21 12	2 2	21 6	21 14	20 50	5 27	2 22
T 11	17 58	5 43	5 17	15 5	0 46	12 44	1 13	21 34	1 43	13 46	0 48	18 3	1 46	1 57	0 41	16 7	0 12	21 12	2 2	21 5	21 13	20 49	5 28	2 22
W12	18 13	1 6	5 11	15 52	0 35	13 9	1 12	21 26	1 42	13 44	0 48	18 4	1 46	1 58	0 41	16 7	0 12	21 12	2 2	21 5	21 12	20 48	5 29	2 22
T 13	18 28	3s43	4 50	16 39	0 25	13 34	1 10	21 18	1 41	13 43	0 48	18 6	1 46	1 59	0 41	16 7	0 12	21 12	2 2	21 5	21 12	20 47	5 31	2 23
F 14	18 43	8 30	4 13	17 24	0 15	13 58	1 9	21 9	1 40	13 41	0 48	18 8	1 46	2 0	0 41	16 7	0 12	21 12	2 2	21 5	21 11	20 46	5 32	2 23
S 15	18 57	13 0	3 19	18 9	0 4	14 23	1 7	21 1	1 40	13 39	0 49	18 10	1 46	2 1	0 41	16 7	0 12	21 12	2 2	21 5	21 11	20 45	5 33	2 23
S 16	19 11	16 54	2 12	18 52	0n 7	14 47	1 5	20 53	1 39	13 37	0 49	18 11	1 46	2 2	0 42	16 7	0 12	21 12	2 2	21 4	21 10	20 44	5 34	2 23
M17	19 24	19 49	0 55	19 34	0 17	15 10	1 4	20 44	1 38	13 36	0 49	18 13	1 46	2 3	0 42	16 7	0 12	21 12	2 2	21 4	21 10	20 43	5 35	2 23
T 18	19 38	21 27	0n27	20 15	0 27	15 33	1 2	20 35	1 37	13 34	0 49	18 15	1 46	2 4	0 42	16 7	0 12	21 12	2 2	21 4	21 9	20 42	5 36	2 23
W19	19 51	21 34	1 48	20 53	0 38	15 56	1 0	20 26	1 36	13 33	0 50	18 17	1 46	2 5	0 42	16 7	0 12	21 12	2 2	21 4	21 8	20 41	5 37	2 23
T 20	20 3	20 9	3 1	21 30	0 48	16 19	0 58	20 18	1 36	13 31	0 50	18 18	1 46	2 6	0 42	16 7	0 12	21 12	2 0	21 5	21 7	20 40	5 38	2 23
F 21	20 16	17 23	4 2	22 4	0 57	16 41	0 56	20 9	1 35	13 30	0 50	18 20	1 46	2 7	0 42	16 7	0 12	21 12	2 0	21 5	21 7	20 39	5 39	2 23
S 22	20 27	13 36	4 45	22 36	1 6	17 2	0 54	19 59	1 34	13 28	0 51	18 22	1 46	2 8	0 42	16 7	0 12	21 12	2 0	21 5	21 6	20 38	5 40	2 23
S 23	20 39	9 7	5 11	23 5	1 15	17 23	0 52	19 50	1 33	13 27	0 51	18 24	1 46	2 9	0 42	16 7	0 12	21 12	2 0	21 5	21 6	20 37	5 41	2 23
M24	20 50	4 16	5 17	23 32	1 23	17 44	0 50	19 41	1 33	13 26	0 51	18 25	1 46	2 10	0 42	16 7	0 12	21 12	2 0	21 5	21 6	20 36	5 42	2 23
T 25	21 1	0n41	5 6	23 56	1 30	18 4	0 48	19 31	1 32	13 25	0 51	18 27	1 46	2 11	0 42	16 7	0 12	21 12	2 0	21 5	21 5	20 35	5 43	2 23
W26	21 12	5 28	4 39	24 18	1 37	18 24	0 46	19 22	1 31	13 24	0 52	18 28	1 46	2 12	0 42	16 7	0 12	21 12	2 0	21 5	21 4	20 34	5 44	2 23
T 27	21 22	9 56	3 59	24 36	1 43	18 44	0 44	19 12	1 30	13 23	0 52	18 30	1 46	2 13	0 42	16 7	0 12	21 12	2 0	21 5	21 4	20 32	5 45	2 23
F 28	21 32	13 52	3 7	24 52	1 49	19 2	0 42	19 2	1 29	13 22	0 52	18 32	1 46	2 14	0 42	16 7	0 12	21 12	2 0	21 5	21 3	20 31	5 46	2 23
S 29	21 41	17 9	2 7	25 6	1 54	19 21	0 39	18 52	1 29	13 21	0 52	18 34	1 46	2 14	0 42	16 7	0 12	21 12	2 0	21 5	21 2	20 30	5 47	2 23
S 30	21 50	19 36	1 3	25 17	1 58	19 39	0 37	18 42	1 28	13 20	0 53	18 35	1 45	2 15	0 42	16 7	0 12	21 12	2 0	21 5	21 2	20 29	5 48	2 23
M31	21n59	21n 8	0s 4	25n25	2n 1	19n56	0s35	18n32	1n27	13s19	0s53	18n37	1s45	2n15	0s42	16s 8	0s12	21n12	2s 0	21s 5	21s 1	20n28	5n49	2n23

Julian Day Number = 2333692.5, Delta T = 25.21 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'11, Lahiri = 19°21'11Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1677
geocentric

JUNE 1677 GC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚷	⚸	Day
T 1	16 40 4	10♊53'35	17♊ 8	27♊16	2♊46	12♌52	27≈10	0♊50	7♈20	16°R26	8♋43	4°R31	4♐10	7♋25	9♈10	T 1
W 2	16 44 1	11°51'00	29° 0	29° 5	4° 0	13°26	27°13	0°58	7°21	16≈26	8°44	4♐30	4° 7	7°32	9°12	W 2
T 3	16 47 57	12°48'23	10♋49	0♋53	5°13	14° 0	27°16	1° 5	7°23	16°25	8°45	4°30	4° 3	7°38	9°14	T 3
F 4	16 51 54	13°45'45	22°38	2°37	6°27	14°34	27°18	1°13	7°25	16°25	8°47	4°28	4° 0	7°45	9°16	F 4
S 5	16 55 50	14°43'07	4♌29	4°19	7°41	15° 8	27°20	1°21	7°27	16°24	8°48	4°27	3°57	7°52	9°18	S 5
S 6	16 59 47	15°40'27	16°26	5°59	8°54	15°42	27°22	1°29	7°29	16°24	8°50	4°26	3°54	7°58	9°20	S 6
M 7	17 3 44	16°37'47	28°33	7°35	10° 8	16°16	27°24	1°36	7°30	16°23	8°51	4°25	3°51	8° 5	9°22	M 7
T 8	17 7 40	17°35'05	10♍54	9°10	11°21	16°50	27°25	1°44	7°32	16°23	8°52	4°24	3°48	8°12	9°23	T 8
W 9	17 11 37	18°32'23	23°33	10°41	12°35	17°24	27°26	1°51	7°34	16°22	8°54	4°D24	3°44	8°18	9°25	W 9
T 10	17 15 33	19°29'40	6♎33	12°10	13°49	17°59	27°28	1°59	7°35	16°21	8°55	4°24	3°41	8°25	9°27	T 10
F 11	17 19 30	20°26'56	19°57	13°36	15° 2	18°33	27°29	2° 7	7°37	16°21	8°57	4°25	3°38	8°32	9°29	F 11
S 12	17 23 26	21°24'11	3♏48	14°59	16°16	19° 8	27°29	2°14	7°38	16°20	8°58	4°27	3°35	8°38	9°30	S 12
S 13	17 27 23	22°21'25	18° 6	16°20	17°29	19°42	27°30	2°22	7°40	16°19	9° 0	4°28	3°32	8°45	9°32	S 13
M14	17 31 19	23°18'38	2♐47	17°37	18°43	20°17	27°30	2°29	7°41	16°18	9° 1	4°R28	3°28	8°52	9°33	M14
T 15	17 35 16	24°15'52	17°47	18°52	19°57	20°52	27°31	2°37	7°42	16°17	9° 3	4°28	3°25	8°58	9°35	T 15
W16	17 39 13	25°13'04	2♑57	20° 4	21°10	21°26	27°R31	2°44	7°44	16°17	9° 4	4°26	3°22	9° 5	9°36	W16
T 17	17 43 9	26°10'16	18° 8	21°13	22°24	22° 1	27°30	2°51	7°45	16°16	9° 6	4°24	3°19	9°12	9°38	T 17
F 18	17 47 6	27° 7'28	3≈11	22°19	23°37	22°36	27°30	2°59	7°46	16°15	9° 7	4°21	3°16	9°18	9°39	F 18
S 19	17 51 2	28° 4'40	17°56	23°22	24°51	23°11	27°30	3° 6	7°47	16°14	9° 9	4°18	3°13	9°25	9°40	S 19
S 20	17 54 59	29° 1'52	2♓19	24°22	26° 5	23°46	27°29	3°13	7°48	16°13	9°10	4°16	3° 9	9°32	9°41	S 20
M21	17 58 55	29°59'03	16°16	25°18	27°18	24°21	27°28	3°21	7°50	16°12	9°12	4°14	3° 6	9°38	9°43	M21
T 22	18 2 52	0♋56'15	29°46	26°11	28°32	24°56	27°27	3°28	7°51	16°11	9°13	4°D13	3° 3	9°45	9°44	T 22
W23	18 6 48	1°53'27	12♈52	27° 0	29°46	25°32	27°25	3°35	7°52	16°10	9°15	4°14	3° 0	9°52	9°45	W23
T 24	18 10 45	2°50'38	25°36	27°46	1♋ 0	26° 7	27°24	3°42	7°52	16° 9	9°16	4°15	2°57	9°58	9°46	T 24
F 25	18 14 42	3°47'50	8♉ 2	28°28	2°13	26°42	27°22	3°49	7°53	16° 8	9°18	4°17	2°53	10° 5	9°47	F 25
S 26	18 18 38	4°45'02	20°14	29° 6	3°27	27°18	27°20	3°57	7°54	16° 7	9°19	4°18	2°50	10°12	9°48	S 26
S 27	18 22 35	5°42'15	2♊15	29°41	4°41	27°53	27°18	4° 4	7°55	16° 6	9°21	4°R19	2°47	10°18	9°49	S 27
M28	18 26 31	6°39'27	14°10	0♌11	5°54	28°29	27°16	4°11	7°56	16° 4	9°22	4°19	2°44	10°25	9°49	M28
T 29	18 30 28	7°36'39	26° 0	0°37	7° 8	29° 4	27°13	4°18	7°56	16° 3	9°24	4°17	2°41	10°32	9°50	T 29
W30	18 34 24	8♋33'52	7♋49	0♌58	8♋22	29♌40	27≈11	4♊25	7♈57	16≈ 2	9♋25	4♐13	2♐38	10♋38	9♈51	W30

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
T 1	22n 7	21n42	1s 9	25n30	2n 3	20n13	0s33	18n22	1n26	13s18	0s53	18n38	1s45	2n16	0s42	16s 8	0s12	21n12	1s59	21s 5	21s 1	20n27	5n50	2n23
W 2	22 15	21 17	2 12	25 34	2 5	20 29	0 31	18 11	1 26	13 17	0 53	18 40	1 45	2 17	0 42	16 8	0 12	21 12	1 59	21 5	21 0	20 26	5 51	2 23
T 3	22 22	19 55	3 16	25 35	2 6	20 45	0 28	18 1	1 25	13 17	0 54	18 42	1 45	2 18	0 42	16 8	0 12	21 12	1 59	21 5	21 0	20 25	5 52	2 23
F 4	22 29	17 41	3 56	25 33	2 6	21 0	0 26	17 50	1 24	13 17	0 54	18 43	1 45	2 18	0 42	16 8	0 12	21 12	1 59	21 4	20 59	20 24	5 52	2 23
S 5	22 36	14 44	4 35	25 30	2 6	21 14	0 24	17 39	1 24	13 16	0 54	18 45	1 45	2 19	0 42	16 9	0 12	21 12	1 59	21 4	20 58	20 23	5 53	2 23
S 6	22 42	11 8	5 1	25 25	2 4	21 28	0 21	17 29	1 23	13 16	0 55	18 46	1 45	2 20	0 42	16 9	0 12	21 12	1 59	21 4	20 58	20 21	5 54	2 23
M 7	22 48	7 4	5 15	25 18	2 2	21 42	0 19	17 18	1 22	13 15	0 55	18 48	1 45	2 20	0 42	16 9	0 12	21 12	1 59	21 4	20 57	20 20	5 55	2 23
T 8	22 54	2 38	5 15	25 9	1 59	21 54	0 17	17 7	1 21	13 15	0 55	18 49	1 45	2 21	0 42	16 9	0 12	21 12	1 59	21 3	20 57	20 19	5 55	2 23
W 9	22 59	2s 1	4 59	24 58	1 56	22 7	0 14	16 55	1 21	13 15	0 55	18 51	1 45	2 22	0 42	16 9	0 12	21 12	1 59	21 3	20 56	20 18	5 56	2 24
T 10	23 4	6 42	4 28	24 47	1 52	22 18	0 12	16 44	1 20	13 15	0 56	18 52	1 45	2 22	0 42	16 10	0 12	21 12	1 59	21 4	20 55	20 17	5 57	2 24
F 11	23 8	11 14	3 42	24 33	1 47	22 29	0 9	16 33	1 19	13 15	0 56	18 54	1 45	2 23	0 42	16 10	0 12	21 12	1 59	21 4	20 55	20 16	5 58	2 24
S 12	23 12	15 20	2 42	24 19	1 41	22 39	0 7	16 21	1 18	13 15	0 56	18 55	1 45	2 23	0 42	16 10	0 12	21 12	1 59	21 4	20 54	20 15	5 58	2 24
S 13	23 16	18 41	1 29	24 3	1 35	22 49	0 5	16 10	1 18	13 15	0 56	18 57	1 45	2 24	0 42	16 10	0 13	21 12	1 59	21 4	20 54	20 13	5 59	2 24
M14	23 19	20 54	0 9	23 46	1 28	22 58	0 2	15 58	1 17	13 15	0 57	18 58	1 45	2 24	0 42	16 11	0 13	21 12	1 58	21 4	20 53	20 12	6 0	2 24
T 15	23 21	21 42	1n13	23 29	1 20	23 6	0n 0	15 46	1 16	13 15	0 57	19 0	1 45	2 25	0 42	16 11	0 13	21 12	1 58	21 4	20 52	20 11	6 0	2 24
W16	23 24	20 56	2 31	23 10	1 12	23 14	0 3	15 34	1 16	13 15	0 57	19 1	1 45	2 25	0 42	16 11	0 13	21 12	1 58	21 4	20 51	20 10	6 1	2 24
T 17	23 25	18 39	3 38	22 51	1 3	23 21	0 5	15 22	1 15	13 16	0 58	19 3	1 45	2 26	0 42	16 11	0 13	21 12	1 58	21 4	20 51	20 9	6 2	2 24
F 18	23 27	15 6	4 30	22 31	0 54	23 27	0 7	15 10	1 14	13 16	0 58	19 4	1 45	2 26	0 42	16 12	0 13	21 12	1 58	21 3	20 51	20 8	6 2	2 24
S 19	23 28	10 41	5 2	22 11	0 44	23 32	0 10	14 58	1 14	13 16	0 58	19 5	1 45	2 27	0 42	16 12	0 13	21 12	1 58	21 2	20 50	20 6	6 3	2 24
S 20	23 29	5 46	5 14	21 50	0 33	23 37	0 12	14 46	1 13	13 17	0 58	19 7	1 45	2 27	0 42	16 12	0 13	21 12	1 58	21 2	20 49	20 5	6 3	2 24
M21	23 29	0 42	5 8	21 29	0 22	23 41	0 14	14 34	1 12	13 18	0 59	19 8	1 45	2 28	0 43	16 13	0 13	21 12	1 58	21 2	20 49	20 4	6 4	2 24
T 22	23 29	4n15	4 44	21 8	0 11	23 45	0 17	14 21	1 11	13 18	0 59	19 10	1 45	2 28	0 43	16 13	0 13	21 12	1 58	21 2	20 48	20 3	6 4	2 24
W23	23 28	8 52	4 6	20 46	0s 1	23 48	0 19	14 9	1 11	13 19	0 59	19 11	1 45	2 28	0 43	16 13	0 13	21 12	1 58	21 2	20 48	20 2	6 5	2 24
T 24	23 27	12 58	3 17	20 25	0 14	23 50	0 21	13 56	1 10	13 20	1 0	19 12	1 45	2 29	0 43	16 14	0 13	21 12	1 58	21 2	20 47	20 1	6 5	2 24
F 25	23 26	16 24	2 19	20 3	0 27	23 51	0 24	13 43	1 9	13 21	1 0	19 14	1 45	2 29	0 43	16 14	0 13	21 12	1 58	21 2	20 46	19 59	6 6	2 24
S 26	23 24	19 4	1 17	19 42	0 41	23 52	0 26	13 30	1 9	13 21	1 0	19 15	1 45	2 29	0 43	16 14	0 13	21 12	1 58	21 2	20 46	19 58	6 6	2 25
S 27	23 21	20 50	0 11	19 22	0 55	23 52	0 28	13 18	1 8	13 22	1 0	19 16	1 45	2 30	0 43	16 15	0 13	21 12	1 58	21 1	20 45	19 57	6 6	2 25
M28	23 19	21 39	0s54	19 1	1 9	23 51	0 30	13 5	1 7	13 23	1 1	19 17	1 46	2 30	0 43	16 15	0 13	21 12	1 58	21 1	20 44	19 56	6 7	2 25
T 29	23 16	21 14	1 56	18 42	1 24	23 50	0 33	12 51	1 7	13 25	1 1	19 19	1 46	2 30	0 43	16 16	0 13	21 12	1 58	21 1	20 44	19 55	6 7	2 25
W30	23n12	20n23	2s53	18n22	1s38	23n48	0n35	12n38	1n 6	13s26	1s 1	19n20	1s46	2n30	0s43	16s16	0s13	21n12	1s57	21s 1	20n43	19n53	6n 8	2n25

Julian Day Number = 2333723.5, Delta T = 25.16 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'15, Lahiri = 19°21'15Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1677
geocentric

JULY 1677 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 38 21	9♋31'04	19♋38	1♌16	9♋36	0♍16	27°R 8	4♊32	7♈58	16°R 1	9♋27	4°R 8	2♐34	10♋45	9♈52	T 1
F 2	18 42 17	10°28'17	1♌29	1°28	10°49	0°51	27♒ 5	4°38	7°58	16♒ 0	9°28	4♐ 2	2°31	10°52	9°52	F 2
S 3	18 46 14	11°25'29	13♌25	1°36	12° 3	1°27	27° 2	4°45	7°59	15°58	9°30	3°55	2°28	10°58	9°53	S 3
S 4	18 50 11	12°22'42	25♌27	1°R39	13°17	2° 3	26°58	4°52	7°59	15°57	9°31	3°48	2°25	11° 5	9°53	S 4
M 5	18 54 7	13°19'54	7♍38	1°38	14°31	2°39	26°55	4°59	8° 0	15°56	9°33	3°43	2°22	11°12	9°54	M 5
T 6	18 58 4	14°17'06	20♍1	1°32	15°45	3°15	26°51	5° 5	8° 0	15°54	9°34	3°38	2°19	11°18	9°54	T 6
W 7	19 2 0	15°14'19	2♎39	1°21	16°58	3°51	26°47	5°12	8° 0	15°53	9°36	3°36	2°15	11°25	9°54	W 7
T 8	19 5 57	16°11'31	15♎35	1° 5	18°12	4°27	26°43	5°19	8° 1	15°52	9°38	3°D35	2°12	11°32	9°55	T 8
F 9	19 9 53	17° 8'44	28♎52	0°45	19°26	5° 3	26°39	5°25	8° 1	15°50	9°39	3°36	2° 9	11°38	9°55	F 9
S 10	19 13 50	18° 5'56	12♏34	0°21	20°40	5°40	26°34	5°32	8° 1	15°49	9°41	3°37	2° 6	11°45	9°55	S 10
S 11	19 17 46	19° 3'09	26♏42	29♋53	21°54	6°16	26°30	5°38	8° 1	15°48	9°42	3°R38	2° 3	11°52	9°55	S 11
M 12	19 21 43	20° 0'22	11♐15	29°21	23° 8	6°52	26°25	5°44	8° 1	15°46	9°44	3°38	1°59	11°58	9°55	M 12
T 13	19 25 40	20°57'35	26♐9	28°46	24°22	7°29	26°20	5°51	8°R 1	15°45	9°45	3°36	1°56	12° 5	9°R55	T 13
W 14	19 29 36	21°54'48	11♑18	28° 8	25°35	8° 5	26°15	5°57	8° 1	15°43	9°47	3°32	1°53	12°12	9°55	W 14
T 15	19 33 33	22°52'02	26♑34	27°29	26°49	8°42	26°10	6° 3	8° 1	15°42	9°48	3°26	1°50	12°19	9°55	T 15
F 16	19 37 29	23°49'16	11♒45	26°48	28° 3	9°18	26° 4	6° 9	8° 1	15°40	9°50	3°19	1°47	12°25	9°55	F 16
S 17	19 41 26	24°46'31	26♒41	26° 6	29°17	9°55	25°59	6°15	8° 1	15°39	9°51	3°12	1°44	12°32	9°55	S 17
S 18	19 45 22	25°43'46	11♓15	25°24	0♌31	10°32	25°53	6°21	8° 0	15°37	9°53	3° 5	1°40	12°39	9°55	S 18
M 19	19 49 19	26°41'03	25♓20	24°43	1°45	11° 8	25°47	6°27	8° 0	15°36	9°54	2°59	1°37	12°45	9°54	M 19
T 20	19 53 15	27°38'20	8♈56	24° 3	2°59	11°45	25°41	6°33	8° 0	15°34	9°56	2°55	1°34	12°52	9°54	T 20
W 21	19 57 12	28°35'38	22♈4	23°26	4°13	12°22	25°35	6°39	7°59	15°33	9°57	2°54	1°31	12°59	9°53	W 21
T 22	20 1 9	29°32'58	4♉47	22°51	5°27	12°59	25°29	6°45	7°59	15°31	9°58	2°D54	1°28	13° 5	9°53	T 22
F 23	20 5 5	0♌30'18	17♉10	22°20	6°41	13°36	25°23	6°50	7°59	15°30	10° 0	2°54	1°25	13°12	9°52	F 23
S 24	20 9 2	1°27'40	29♉17	21°54	7°54	14°13	25°16	6°56	7°58	15°28	10° 1	2°R55	1°21	13°19	9°52	S 24
S 25	20 12 58	2°25'02	11♊13	21°31	9° 8	14°50	25°10	7° 2	7°58	15°27	10° 3	2°55	1°18	13°25	9°51	S 25
M 26	20 16 55	3°22'26	23♊3	21°15	10°22	15°27	25° 3	7° 7	7°57	15°25	10° 4	2°53	1°15	13°32	9°51	M 26
T 27	20 20 51	4°19'50	4♋51	21° 3	11°36	16° 4	24°56	7°13	7°56	15°23	10° 6	2°48	1°12	13°39	9°50	T 27
W 28	20 24 48	5°17'16	16♋40	20°D58	12°50	16°42	24°49	7°18	7°56	15°22	10° 7	2°41	1° 9	13°45	9°49	W 28
T 29	20 28 44	6°14'42	28♋32	20°59	14° 4	17°19	24°42	7°23	7°55	15°20	10° 8	2°32	1° 5	13°52	9°48	T 29
F 30	20 32 41	7°12'10	10♌29	21° 6	15°18	17°56	24°35	7°28	7°54	15°19	10°10	2°21	1° 2	13°59	9°47	F 30
S 31	20 36 38	8♌ 9'38	22♌33	21♋20	16♌32	18♍34	24♒28	7♊34	7♈53	15♒17	10♋11	2♐ 9	0♐59	14♋ 5	9♈46	S 31

Day	☉ decl	☽ decl	☽ lat	☿ decl	☿ lat	♀ decl	♀ lat	♂ decl	♂ lat	♃ decl	♃ lat	♄ decl	♄ lat	♅ decl	♅ lat	♆ decl	♆ lat	♇ decl	♇ lat	☊ decl	☊ decl	⚸ decl	⚷ decl	⚷ lat
T 1	23n 8	18n23	3s42	18n 4	1s53	23n45	0n37	12n25	1n 5	13n27	1s 1	19n21	1s46	2n30	0s43	16s16	0s13	21n11	1s57	21s 0	20s43	19n52	6n 8	2n25
F 2	23 4	15 36	4 22	17 47	2 8	23 41	0 39	12 12	1 5	13 28	1 2	19 22	1 46	2 31	0 43	16 16	0 13	21 11	1 57	20 59	20 42	19 51	6 8	2 25
S 3	22 59	12 11	4 51	17 30	2 24	23 37	0 41	11 58	1 4	13 30	1 2	19 23	1 46	2 31	0 43	16 17	0 13	21 11	1 57	20 58	20 41	19 50	6 8	2 25
S 4	22 54	8 14	5 7	17 15	2 39	23 32	0 43	11 45	1 3	13 31	1 2	19 25	1 46	2 31	0 43	16 17	0 13	21 11	1 57	20 57	20 41	19 48	6 9	2 25
M 5	22 49	3 56	5 9	17 0	2 54	23 26	0 45	11 31	1 3	13 33	1 3	19 26	1 46	2 31	0 43	16 18	0 13	21 11	1 57	20 56	20 40	19 47	6 9	2 25
T 6	22 43	0s36	4 58	16 47	3 8	23 20	0 47	11 17	1 2	13 34	1 3	19 27	1 46	2 31	0 43	16 18	0 13	21 11	1 57	20 55	20 40	19 46	6 9	2 25
W 7	22 36	5 12	4 31	16 36	3 23	23 13	0 49	11 4	1 1	13 36	1 3	19 28	1 46	2 31	0 43	16 19	0 13	21 11	1 57	20 55	20 39	19 45	6 9	2 25
T 8	22 30	9 41	3 51	16 26	3 36	23 5	0 51	10 50	1 1	13 37	1 3	19 29	1 46	2 31	0 43	16 19	0 13	21 11	1 57	20 54	20 38	19 43	6 9	2 25
F 9	22 23	13 51	2 57	16 17	3 50	22 57	0 53	10 36	1 0	13 39	1 4	19 30	1 46	2 31	0 43	16 19	0 13	21 11	1 57	20 54	20 38	19 42	6 10	2 25
S 10	22 15	17 24	1 52	16 10	4 2	22 47	0 55	10 22	0 59	13 41	1 4	19 31	1 46	2 31	0 43	16 20	0 13	21 11	1 57	20 55	20 37	19 41	6 10	2 25
S 11	22 7	20 4	0 37	16 5	4 13	22 38	0 57	10 8	0 59	13 43	1 4	19 32	1 46	2 31	0 43	16 20	0 13	21 11	1 57	20 55	20 36	19 40	6 10	2 25
M 12	21 59	21 29	0n41	16 1	4 24	22 27	0 58	9 54	0 58	13 44	1 4	19 33	1 46	2 31	0 43	16 21	0 13	21 11	1 57	20 55	20 36	19 38	6 10	2 26
T 13	21 51	21 27	1 59	15 59	4 33	22 16	1 0	9 40	0 57	13 46	1 5	19 34	1 46	2 31	0 43	16 21	0 13	21 11	1 57	20 55	20 35	19 37	6 10	2 26
W 14	21 42	19 52	3 9	15 59	4 41	22 4	1 2	9 25	0 57	13 48	1 5	19 35	1 46	2 31	0 43	16 22	0 13	21 11	1 57	20 54	20 34	19 36	6 10	2 26
T 15	21 34	16 51	4 6	16 1	4 47	21 52	1 4	9 11	0 56	13 50	1 5	19 36	1 46	2 31	0 43	16 22	0 13	21 11	1 57	20 53	20 34	19 35	6 10	2 26
F 16	21 23	12 43	4 46	16 4	4 52	21 39	1 5	8 57	0 55	13 52	1 5	19 37	1 47	2 31	0 43	16 22	0 13	21 11	1 57	20 51	20 33	19 33	6 10	2 26
S 17	21 12	7 51	5 5	16 8	4 55	21 25	1 7	8 42	0 55	13 54	1 6	19 38	1 47	2 31	0 43	16 23	0 13	21 11	1 57	20 50	20 33	19 32	6 10	2 26
S 18	21 2	2 40	5 4	16 15	4 56	21 11	1 8	8 28	0 54	13 57	1 6	19 39	1 47	2 31	0 43	16 24	0 13	21 10	1 57	20 49	20 32	19 31	6 9	2 26
M 19	20 51	2n29	4 44	16 22	4 56	20 56	1 10	8 13	0 53	13 59	1 6	19 40	1 47	2 31	0 43	16 24	0 13	21 10	1 56	20 47	20 31	19 30	6 9	2 26
T 20	20 40	7 21	4 9	16 31	4 53	20 41	1 11	7 59	0 53	14 1	1 6	19 41	1 47	2 31	0 43	16 25	0 13	21 10	1 56	20 47	20 31	19 27	6 10	2 26
W 21	20 29	11 43	3 21	16 41	4 50	20 25	1 12	7 44	0 52	14 3	1 6	19 42	1 47	2 31	0 43	16 25	0 13	21 10	1 56	20 46	20 30	19 27	6 10	2 26
T 22	20 17	15 25	2 25	16 52	4 44	20 8	1 14	7 29	0 51	14 6	1 7	19 43	1 47	2 30	0 43	16 26	0 13	21 10	1 56	20 46	20 29	19 26	6 10	2 26
F 23	20 5	18 19	1 24	17 4	4 37	19 51	1 15	7 14	0 51	14 8	1 7	19 44	1 47	2 30	0 44	16 26	0 13	21 10	1 56	20 47	20 29	19 24	6 9	2 26
S 24	19 52	20 21	0 20	17 17	4 28	19 33	1 16	6 59	0 50	14 10	1 7	19 45	1 47	2 30	0 44	16 26	0 13	21 10	1 56	20 47	20 28	19 23	6 9	2 26
S 25	19 39	21 26	0s44	17 30	4 18	19 14	1 17	6 44	0 49	14 13	1 7	19 46	1 47	2 30	0 44	16 27	0 13	21 10	1 56	20 47	20 27	19 22	6 9	2 26
M 26	19 26	21 32	1 46	17 44	4 7	18 55	1 18	6 29	0 49	14 15	1 8	19 46	1 47	2 29	0 44	16 28	0 13	21 10	1 56	20 46	20 27	19 20	6 9	2 26
T 27	19 13	20 42	2 42	17 58	3 55	18 36	1 19	6 14	0 48	14 17	1 8	19 47	1 47	2 29	0 44	16 28	0 13	21 10	1 56	20 45	20 26	19 19	6 9	2 26
W 28	18 59	18 57	3 31	18 12	3 42	18 16	1 20	5 59	0 47	14 20	1 8	19 48	1 47	2 28	0 44	16 28	0 13	21 10	1 56	20 42	20 25	19 17	6 9	2 27
T 29	18 45	16 23	4 12	18 25	3 27	17 56	1 21	5 44	0 47	14 23	1 8	19 49	1 47	2 28	0 44	16 28	0 13	21 10	1 56	20 42	20 25	19 17	6 8	2 27
F 30	18 30	13 8	4 41	18 39	3 13	17 35	1 22	5 29	0 46	14 25	1 8	19 49	1 47	2 28	0 44	16 29	0 13	21 10	1 56	20 40	20 24	19 15	6 8	2 27
S 31	18n15	9n19	4s58	18n52	2s57	17n13	1n23	5n14	0n45	14s28	1s 8	19n50	1s48	2n28	0s44	16s29	0s13	21n10	1s56	20s38	20s23	19n14	6n 7	2n27

Julian Day Number = 2333753.5, Delta T = 25.11 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'19, Lahiri = 19°21'19Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1677
geocentric

AUGUST 1677 GC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☋	⚷	⚸	Day
S 1	20 40 34	9♌ 7'08	4♍45	21♋40	17♌47	19♍11	24°R21	7♊39	7°R52	15°R15	10♋13	1°R57	0✠56	14♋12	9°R45	S 1
M 2	20 44 31	10° 4'38	17° 6	22° 7	19° 1	19°49	24♒13	7°44	7♈51	15♒14	10°14	1✠46	0°53	14°19	9♈44	M 2
T 3	20 48 27	11° 2'09	29°38	22°41	20°15	20°26	24° 6	7°48	7°50	15°12	10°15	1°38	0°50	14°25	9°43	T 3
W 4	20 52 24	11°59'41	12♎22	23°21	21°29	21° 4	23°58	7°53	7°49	15°10	10°17	1°32	0°46	14°32	9°42	W 4
T 5	20 56 20	12°57'14	25°20	24° 8	22°43	21°42	23°51	7°58	7°48	15° 9	10°18	1°28	0°43	14°39	9°41	T 5
F 6	21 0 17	13°54'48	8♏35	25° 1	23°57	22°20	23°43	8° 3	7°47	15° 7	10°19	1°D27	0°40	14°45	9°40	F 6
S 7	21 4 13	14°52'23	22°10	26° 1	25°11	22°57	23°35	8° 7	7°46	15° 6	10°21	1°27	0°37	14°52	9°38	S 7
S 8	21 8 10	15°49'58	6✠ 7	27° 7	26°25	23°35	23°28	8°12	7°45	15° 4	10°22	1°R27	0°34	14°59	9°37	S 8
M 9	21 12 7	16°47'35	20°25	28°19	27°39	24°13	23°20	8°16	7°44	15° 2	10°23	1°26	0°31	15° 6	9°36	M 9
T 10	21 16 3	17°45'13	5♑ 4	29°36	28°53	24°51	23°12	8°21	7°42	15° 1	10°24	1°23	0°27	15°12	9°34	T 10
W 11	21 20 0	18°42'51	19°59	0♌59	0♍ 7	25°29	23° 4	8°25	7°41	14°59	10°26	1°17	0°24	15°19	9°33	W 11
T 12	21 23 56	19°40'31	5♒ 3	2°27	1°21	26° 7	22°57	8°29	7°40	14°57	10°27	1° 9	0°21	15°26	9°31	T 12
F 13	21 27 53	20°38'12	20° 7	3°59	2°35	26°45	22°49	8°33	7°38	14°56	10°28	0°58	0°18	15°32	9°30	F 13
S 14	21 31 49	21°35'55	5♓ 0	5°36	3°49	27°24	22°41	8°37	7°37	14°54	10°29	0°47	0°15	15°39	9°28	S 14
S 15	21 35 46	22°33'38	19°34	7°17	5° 3	28° 2	22°33	8°41	7°35	14°53	10°31	0°37	0°11	15°46	9°26	S 15
M 16	21 39 42	23°31'24	3♈43	9° 2	6°17	28°40	22°25	8°45	7°34	14°51	10°32	0°28	0° 8	15°52	9°25	M 16
T 17	21 43 39	24°29'11	17°23	10°50	7°31	29°18	22°17	8°48	7°32	14°49	10°33	0°22	0° 5	15°59	9°23	T 17
W 18	21 47 36	25°26'59	0♉35	12°40	8°45	29°57	22° 9	8°52	7°31	14°48	10°34	0°18	0° 2	16° 6	9°21	W 18
T 19	21 51 32	26°24'50	13°21	14°33	9°59	0♎35	22° 2	8°56	7°29	14°46	10°35	0°16	29♏59	16°12	9°19	T 19
F 20	21 55 29	27°22'42	25°45	16°28	11°14	1°14	21°54	8°59	7°28	14°45	10°36	0°16	29°56	16°19	9°17	F 20
S 21	21 59 25	28°20'36	7♊52	18°24	12°28	1°52	21°46	9° 2	7°26	14°43	10°38	0°16	29°52	16°26	9°16	S 21
S 22	22 3 22	29°18'32	19°48	20°21	13°42	2°31	21°38	9° 6	7°24	14°41	10°39	0°15	29°49	16°32	9°14	S 22
M 23	22 7 18	0♍16'30	1♋37	22°19	14°56	3°10	21°30	9° 9	7°22	14°40	10°40	0°12	29°46	16°39	9°12	M 23
T 24	22 11 15	1°14'29	13°26	24°17	16°10	3°48	21°23	9°12	7°21	14°38	10°41	0° 7	29°43	16°46	9°10	T 24
W 25	22 15 11	2°12'30	25°17	26°15	17°24	4°27	21°15	9°15	7°19	14°37	10°42	29♏59	29°40	16°53	9° 7	W 25
T 26	22 19 8	3°10'34	7♌14	28°14	18°38	5° 6	21° 8	9°18	7°17	14°35	10°43	29°48	29°37	16°59	9° 5	T 26
F 27	22 23 5	4° 8'38	19°20	0♍12	19°52	5°45	21° 0	9°20	7°15	14°34	10°44	29°36	29°33	17° 6	9° 3	F 27
S 28	22 27 1	5° 6'45	1♍35	2° 9	21° 6	6°24	20°53	9°23	7°13	14°32	10°45	29°22	29°30	17°13	9° 1	S 28
S 29	22 30 58	6° 4'53	14° 1	4° 6	22°20	7° 3	20°45	9°26	7°11	14°31	10°46	29° 8	29°27	17°19	8°59	S 29
M 30	22 34 54	7° 3'03	26°37	6° 2	23°35	7°42	20°38	9°28	7° 9	14°29	10°47	28°56	29°24	17°26	8°57	M 30
T 31	22 38 51	8♍ 1'14	9♎25	7♍58	24♍49	8♎21	20♒31	9♊31	7♈ 7	14♒28	10♋48	28♏46	29♏21	17♋33	8♈54	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☋	⚷	⚸	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18n 0	5n 6	5s 2	19n 5	2s41	16n51	1n23	4n58	0n45	14n31	1s 9	19n51	1s48	2n27	0s44	16s30	0s13	21n10	1s56	20s35	20s23	19n13	6n 7	2n27
M 2	17 45	0 37	4 52	19 16	2 25	16 29	1 24	4 43	0 44	14 33	1 9	19 52	1 48	2 27	0 44	16 30	0 13	21 9	1 56	20 33	20 22	19 11	6 7	2 27
T 3	17 29	3s56	4 28	19 27	2 9	16 6	1 25	4 28	0 43	14 36	1 9	19 52	1 48	2 27	0 44	16 31	0 13	21 9	1 56	20 31	20 21	19 10	6 6	2 27
W 4	17 13	8 25	3 50	19 36	1 52	15 43	1 25	4 12	0 43	14 38	1 9	19 53	1 48	2 26	0 44	16 31	0 13	21 9	1 56	20 30	20 21	19 9	6 6	2 27
T 5	16 57	12 36	2 59	19 45	1 36	15 19	1 26	3 57	0 42	14 41	1 9	19 54	1 48	2 26	0 44	16 32	0 13	21 9	1 56	20 29	20 20	19 7	6 6	2 27
F 6	16 41	16 15	1 58	19 51	1 20	14 55	1 26	3 41	0 41	14 44	1 9	19 54	1 48	2 25	0 44	16 32	0 13	21 9	1 56	20 29	20 20	19 6	6 5	2 27
S 7	16 24	19 8	0 49	19 56	1 4	14 30	1 26	3 26	0 41	14 46	1 10	19 55	1 49	2 25	0 44	16 33	0 13	21 9	1 56	20 29	20 19	19 5	6 5	2 27
S 8	16 7	20 58	0n25	19 59	0 48	14 5	1 26	3 10	0 40	14 49	1 10	19 55	1 49	2 24	0 44	16 33	0 13	21 9	1 56	20 29	20 18	19 3	6 4	2 27
M 9	15 50	21 29	1 39	19 59	0 33	13 40	1 27	2 54	0 40	14 52	1 10	19 56	1 49	2 24	0 44	16 34	0 13	21 9	1 56	20 29	20 18	19 2	6 4	2 27
T 10	15 32	20 35	2 48	19 58	0 19	13 14	1 27	2 39	0 39	14 55	1 10	19 56	1 49	2 23	0 44	16 34	0 13	21 9	1 56	20 28	20 17	19 0	6 3	2 27
W 11	15 15	18 15	3 47	19 54	0 5	12 48	1 27	2 23	0 38	14 57	1 10	19 57	1 49	2 23	0 44	16 35	0 13	21 9	1 56	20 27	20 16	18 59	6 3	2 27
T 12	14 56	14 39	4 31	19 47	0n 9	12 22	1 27	2 7	0 38	15 0	1 10	19 58	1 49	2 22	0 44	16 35	0 13	21 9	1 56	20 25	20 16	18 58	6 2	2 27
F 13	14 38	10 7	4 56	19 38	0 21	11 55	1 27	1 51	0 37	15 3	1 10	19 58	1 49	2 22	0 44	16 36	0 13	21 9	1 56	20 23	20 15	18 56	6 1	2 27
S 14	14 20	5 2	5 0	19 26	0 33	11 28	1 27	1 36	0 36	15 5	1 11	19 59	1 49	2 21	0 44	16 36	0 13	21 9	1 56	20 21	20 14	18 55	6 1	2 27
S 15	14 1	0n14	4 45	19 12	0 44	11 1	1 26	1 20	0 36	15 8	1 11	19 59	1 50	2 20	0 44	16 37	0 13	21 9	1 56	20 19	20 14	18 54	6 0	2 27
M 16	13 42	5 20	4 12	18 54	0 54	10 33	1 26	1 4	0 35	15 11	1 11	20 0	1 50	2 20	0 44	16 37	0 13	21 9	1 55	20 17	20 13	18 52	5 59	2 27
T 17	13 23	10 1	3 26	18 34	1 4	10 5	1 26	0 48	0 34	15 13	1 11	20 0	1 50	2 19	0 44	16 38	0 13	21 8	1 55	20 16	20 12	18 51	5 59	2 27
W 18	13 4	14 2	2 30	18 11	1 12	9 37	1 25	0 32	0 34	15 16	1 11	20 1	1 50	2 19	0 44	16 38	0 13	21 8	1 55	20 15	20 11	18 49	5 58	2 27
T 19	12 44	17 16	1 28	17 46	1 19	9 9	1 25	0 16	0 33	15 19	1 11	20 1	1 50	2 18	0 44	16 39	0 13	21 8	1 55	20 15	20 11	18 48	5 57	2 27
F 20	12 24	19 37	0 24	17 18	1 26	8 40	1 24	0 33	15 21	1 11	20 2	1 50	2 17	0 44	16 39	0 13	21 8	1 55	20 14	20 10	18 47	5 57	2 27
S 21	12 4	21 0	0s40	16 47	1 31	8 11	1 24	0s16	0 32	15 24	1 11	20 2	1 50	2 17	0 44	16 40	0 13	21 8	1 55	20 14	20 9	18 45	5 56	2 27
S 22	11 44	21 24	1 41	16 15	1 36	7 42	1 23	0 32	0 31	15 26	1 11	20 3	1 50	2 16	0 44	16 40	0 13	21 8	1 55	20 14	20 9	18 44	5 55	2 27
M 23	11 24	20 50	2 38	15 40	1 40	7 13	1 22	0 47	0 31	15 29	1 11	20 3	1 51	2 15	0 44	16 41	0 13	21 8	1 55	20 14	20 8	18 42	5 54	2 27
T 24	11 3	19 22	3 27	15 4	1 43	6 43	1 22	1 3	0 30	15 32	1 11	20 4	1 51	2 14	0 44	16 41	0 13	21 8	1 55	20 13	20 7	18 41	5 54	2 27
W 25	10 42	17 3	4 8	14 26	1 45	6 13	1 21	1 19	0 29	15 34	1 11	20 4	1 51	2 14	0 44	16 42	0 13	21 8	1 55	20 11	20 6	18 40	5 53	2 27
T 26	10 21	14 1	4 37	13 46	1 46	5 44	1 20	1 36	0 28	15 37	1 11	20 5	1 51	2 13	0 44	16 42	0 13	21 8	1 55	20 9	20 6	18 38	5 52	2 27
F 27	10 0	10 22	4 55	13 5	1 47	5 14	1 19	1 52	0 28	15 39	1 12	20 6	1 51	2 12	0 44	16 43	0 13	21 8	1 55	20 7	20 5	18 37	5 51	2 27
S 28	9 39	6 16	5 0	12 23	1 47	4 43	1 18	2 8	0 27	15 41	1 12	20 6	1 51	2 11	0 44	16 43	0 13	21 8	1 55	20 5	20 4	18 35	5 50	2 27
S 29	9 18	1 50	4 50	11 40	1 46	4 13	1 17	2 24	0 27	15 44	1 12	20 7	1 51	2 10	0 44	16 43	0 13	21 8	1 55	20 0	20 4	18 34	5 49	2 27
M 30	8 56	2s44	4 26	10 56	1 44	3 43	1 15	2 40	0 26	15 46	1 12	20 4	1 51	2 10	0 44	16 44	0 13	21 8	1 55	19 57	20 3	18 33	5 49	2 27
T 31	8n35	7s14	3s49	10n11	1n42	3n12	1n14	2s56	0n26	15n48	1s12	20n 5	1s52	2n 9	0s44	16s44	0s14	21n 8	1s55	19s55	20s 3	18n31	5n48	2n27

Julian Day Number = 2333784.5, Delta T = 25.06 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'23, Lahiri = 19°21'24Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1677
geocentric

SEPTEMBER 1677 GC

<div align="right">00:00 UT</div>

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 42 47	8♍59'27	22♎23	9♍52	26♍ 3	9♎ 0	20°R24	9♊33	7°R 5	14°R26	10♋49	28°R39	29♏17	17♋39	8°R52	W 1
T 2	22 46 44	9°57'42	5♏33	11°45	27°17	9°40	20♒17	9°35	7♈ 3	14♒25	10°49	28♏35	29°14	17°46	8♈50	T 2
F 3	22 50 40	10°55'59	18°56	13°37	28°31	10°19	20°10	9°37	7° 1	14°23	10°50	28°34	29°11	17°53	8°47	F 3
S 4	22 54 37	11°54'16	2♐32	15°29	29°45	10°58	20° 3	9°39	6°59	14°22	10°51	28°D33	29° 8	17°59	8°45	S 4
S 5	22 58 34	12°52'36	16°24	17°19	0♎59	11°38	19°56	9°41	6°57	14°21	10°52	28°R33	29° 5	18° 6	8°42	S 5
M 6	23 2 30	13°50'57	0♑31	19° 8	2°13	12°17	19°50	9°43	6°55	14°19	10°53	28°33	29° 2	18°13	8°40	M 6
T 7	23 6 27	14°49'19	14°53	20°56	3°27	12°57	19°43	9°44	6°52	14°18	10°54	28°30	28°58	18°19	8°37	T 7
W 8	23 10 23	15°47'43	29°27	22°42	4°41	13°36	19°37	9°46	6°50	14°16	10°54	28°24	28°55	18°26	8°35	W 8
T 9	23 14 20	16°46'09	14♒ 8	24°28	5°55	14°16	19°31	9°47	6°48	14°15	10°55	28°16	28°52	18°33	8°32	T 9
F 10	23 18 16	17°44'36	28°51	26°12	7° 9	14°56	19°25	9°48	6°46	14°14	10°56	28° 6	28°49	18°40	8°30	F 10
S 11	23 22 13	18°43'05	13♓26	27°56	8°23	15°35	19°19	9°50	6°44	14°13	10°57	27°56	28°46	18°46	8°27	S 11
S 12	23 26 9	19°41'36	27°47	29°38	9°37	16°15	19°13	9°51	6°41	14°11	10°57	27°46	28°42	18°53	8°25	S 12
M13	23 30 6	20°40'09	11♈48	1♎20	10°51	16°55	19° 7	9°52	6°39	14°10	10°58	27°37	28°39	19° 0	8°22	M13
T 14	23 34 2	21°38'44	25°24	3° 0	12° 6	17°35	19° 2	9°53	6°37	14° 9	10°59	27°31	28°36	19° 6	8°19	T 14
W15	23 37 59	22°37'21	8♉35	4°39	13°20	18°15	18°57	9°53	6°34	14° 8	10°59	27°27	28°33	19°13	8°17	W15
T 16	23 41 56	23°36'01	21°22	6°18	14°34	18°55	18°51	9°54	6°32	14° 6	11° 0	27°25	28°30	19°20	8°14	T 16
F 17	23 45 52	24°34'42	3♊48	7°55	15°48	19°35	18°46	9°55	6°30	14° 5	11° 0	27°D25	28°27	19°26	8°11	F 17
S 18	23 49 49	25°33'26	15°57	9°31	17° 2	20°15	18°41	9°55	6°27	14° 4	11° 1	27°26	28°23	19°33	8° 9	S 18
S 19	23 53 45	26°32'12	27°55	11° 7	18°16	20°55	18°37	9°55	6°25	14° 3	11° 1	27°R26	28°20	19°40	8° 6	S 19
M20	23 57 42	27°31'01	9♋46	12°41	19°30	21°36	18°32	9°56	6°23	14° 2	11° 2	27°25	28°17	19°46	8° 3	M20
T 21	0 1 38	28°29'51	21°36	14°15	20°44	22°16	18°28	9°R56	6°20	14° 1	11° 2	27°22	28°14	19°53	8° 0	T 21
W22	0 5 35	29°28'44	3♌30	15°47	21°58	22°56	18°24	9°56	6°18	14° 0	11° 3	27°17	28°11	20° 0	7°58	W22
T 23	0 9 31	0♎27'39	15°32	17°19	23°11	23°37	18°20	9°56	6°15	13°59	11° 3	27°10	28° 8	20° 7	7°55	T 23
F 24	0 13 28	1°26'36	27°45	18°50	24°25	24°17	18°16	9°55	6°13	13°58	11° 4	27° 1	28° 4	20°13	7°52	F 24
S 25	0 17 25	2°25'36	10♍11	20°20	25°39	24°58	18°12	9°55	6°10	13°57	11° 4	26°51	28° 1	20°20	7°49	S 25
S 26	0 21 21	3°24'37	22°51	21°49	26°53	25°38	18° 9	9°55	6° 8	13°56	11° 5	26°40	27°58	20°27	7°46	S 26
M27	0 25 18	4°23'41	5♎45	23°17	28° 7	26°19	18° 5	9°54	6° 6	13°55	11° 5	26°31	27°55	20°33	7°44	M27
T 28	0 29 14	5°22'47	18°54	24°44	29°21	27° 0	18° 2	9°53	6° 3	13°54	11° 5	26°24	27°52	20°40	7°41	T 28
W29	0 33 11	6°21'54	2♏14	26°10	0♏35	27°41	17°59	9°53	6° 1	13°53	11° 6	26°19	27°48	20°47	7°38	W29
T 30	0 37 7	7♎21'04	15♏46	27♎36	1♏49	28♎21	17♒57	9♊52	5♈58	13♒53	11♋ 6	26♏17	27♏45	20♋53	7♈35	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	8n13	11s30	2s59	9n25	1n40	2n41	1n13	3s12	0n25	15s51	1s12	20n 5	1s52	2n 8	0s44	16s45	0s14	21n 8	1s55	19s54	20s 2	18n30	5n47	2n27
T 2	7 51	15 16	1 59	8 40	1 37	2 11	1 11	3 28	0 24	15 53	1 12	20 5	1 52	2 7	0 45	16 45	0 14	21 8	1 55	19 53	20 1	18 28	5 46	2 27
F 3	7 29	18 18	0 51	7 53	1 33	1 40	1 10	3 44	0 24	15 55	1 12	20 5	1 52	2 7	0 45	16 46	0 14	21 7	1 55	19 52	20 1	18 27	5 45	2 27
S 4	7 7	20 22	0n21	7 7	1 30	1 9	1 9	4 0	0 23	15 57	1 12	20 5	1 52	2 6	0 45	16 46	0 14	21 7	1 55	19 52	20 0	18 25	5 44	2 27
S 5	6 44	21 14	1 33	6 20	1 25	0 38	1 7	4 16	0 22	15 59	1 12	20 5	1 52	2 5	0 45	16 46	0 14	21 7	1 55	19 52	19 59	18 24	5 43	2 27
M 6	6 22	20 48	2 41	5 33	1 21	0 7	1 5	4 32	0 22	16 2	1 12	20 5	1 52	2 4	0 45	16 47	0 14	21 7	1 55	19 52	19 59	18 22	5 42	2 27
T 7	5 59	19 1	3 39	4 46	1 16	0s24	1 4	4 48	0 21	16 4	1 12	20 6	1 53	2 3	0 45	16 47	0 14	21 7	1 55	19 51	19 58	18 21	5 41	2 27
W 8	5 37	15 59	4 25	3 59	1 10	0 55	1 2	5 4	0 20	16 6	1 12	20 6	1 53	2 2	0 45	16 48	0 14	21 7	1 55	19 50	19 57	18 20	5 40	2 27
T 9	5 14	11 56	4 53	3 12	1 5	1 26	1 0	5 20	0 20	16 7	1 12	20 6	1 53	2 1	0 45	16 48	0 14	21 7	1 55	19 49	19 56	18 18	5 39	2 27
F 10	4 51	7 10	5 2	2 25	0 59	1 57	0 58	5 36	0 19	16 9	1 12	20 6	1 53	2 0	0 45	16 48	0 14	21 7	1 55	19 46	19 56	18 17	5 38	2 27
S 11	4 28	2 2	4 51	1 38	0 53	2 28	0 57	5 52	0 19	16 11	1 12	20 6	1 53	2 0	0 45	16 49	0 14	21 7	1 55	19 44	19 55	18 15	5 37	2 27
S 12	4 5	3n 8	4 22	0 52	0 47	2 59	0 55	6 8	0 18	16 13	1 11	20 6	1 53	1 59	0 45	16 49	0 14	21 7	1 55	19 42	19 54	18 14	5 36	2 27
M13	3 42	8 1	3 38	0 5	0 40	3 30	0 53	6 24	0 17	16 15	1 11	20 6	1 53	1 58	0 45	16 49	0 14	21 7	1 55	19 40	19 54	18 12	5 35	2 27
T 14	3 19	12 21	2 42	0s41	0 34	4 1	0 51	6 39	0 17	16 16	1 11	20 6	1 54	1 57	0 45	16 50	0 14	21 7	1 55	19 38	19 53	18 11	5 34	2 27
W15	2 56	15 57	1 39	1 26	0 27	4 31	0 48	6 55	0 16	16 18	1 11	20 6	1 54	1 56	0 45	16 50	0 14	21 7	1 55	19 37	19 52	18 9	5 33	2 27
T 16	2 33	18 39	0 32	2 12	0 20	5 2	0 46	7 11	0 15	16 20	1 11	20 6	1 54	1 55	0 45	16 51	0 14	21 7	1 55	19 37	19 52	18 8	5 31	2 27
F 17	2 9	20 23	0s34	2 57	0 13	5 33	0 44	7 27	0 15	16 21	1 11	20 6	1 54	1 54	0 45	16 51	0 14	21 7	1 55	19 37	19 51	18 6	5 30	2 27
S 18	1 46	21 7	1 37	3 41	0 6	6 3	0 42	7 43	0 14	16 23	1 11	20 6	1 54	1 53	0 45	16 51	0 14	21 7	1 55	19 37	19 50	18 5	5 29	2 27
S 19	1 23	20 52	2 36	4 25	0s 1	6 34	0 40	7 58	0 14	16 24	1 11	20 5	1 54	1 52	0 45	16 52	0 14	21 7	1 55	19 37	19 49	18 3	5 28	2 27
M20	0 59	19 41	3 26	5 9	0 8	7 4	0 37	8 14	0 13	16 25	1 11	20 5	1 54	1 51	0 45	16 52	0 14	21 7	1 55	19 37	19 49	18 2	5 27	2 27
T 21	0 36	17 39	4 8	5 52	0 16	7 34	0 35	8 30	0 12	16 27	1 11	20 5	1 55	1 50	0 45	16 52	0 14	21 7	1 55	19 36	19 48	18 0	5 26	2 27
W22	0 12	14 52	4 40	6 35	0 23	8 4	0 33	8 45	0 12	16 28	1 11	20 5	1 55	1 49	0 45	16 53	0 14	21 7	1 55	19 35	19 47	17 59	5 25	2 27
T 23	0s11	11 26	4 59	7 17	0 30	8 34	0 30	9 1	0 11	16 29	1 11	20 5	1 55	1 48	0 45	16 53	0 14	21 7	1 55	19 33	19 47	17 57	5 24	2 27
F 24	0 35	7 30	5 5	7 58	0 38	9 3	0 28	9 16	0 10	16 30	1 11	20 5	1 55	1 47	0 45	16 53	0 14	21 7	1 55	19 31	19 46	17 56	5 22	2 27
S 25	0 58	3 11	4 57	8 39	0 45	9 33	0 25	9 32	0 10	16 31	1 11	20 5	1 55	1 46	0 45	16 53	0 14	21 7	1 55	19 29	19 45	17 54	5 21	2 27
S 26	1 21	1s21	4 34	9 19	0 52	10 2	0 23	9 47	0 9	16 32	1 11	20 4	1 55	1 45	0 45	16 54	0 14	21 7	1 55	19 27	19 44	17 53	5 20	2 27
M27	1 45	5 55	3 57	9 59	1 0	10 31	0 20	10 3	0 9	16 33	1 10	20 4	1 55	1 44	0 45	16 54	0 14	21 7	1 55	19 25	19 44	17 51	5 19	2 27
T 28	2 8	10 18	3 7	10 38	1 7	10 59	0 18	10 18	0 8	16 34	1 10	20 4	1 55	1 44	0 45	16 54	0 14	21 7	1 55	19 23	19 43	17 50	5 18	2 27
W29	2 32	14 14	2 6	11 15	1 13	11 27	0 15	10 33	0 7	16 35	1 10	20 4	1 56	1 43	0 45	16 55	0 14	21 7	1 55	19 22	19 42	17 48	5 16	2 26
T 30	2s55	17s29	0s56	11s54	1s21	11s56	0n12	10s48	0n 7	16s36	1s10	20n 4	1s56	1n42	0s45	16s55	0s14	21n 7	1s55	19s21	19s42	17n47	5n15	2n26

ASTRODIENST EPHEMERIS for the year 1677
geocentric

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚷	⚸	Day
F 1	0 41 4	8♎20'16	29♏27	29♎ 0	3♏ 3	29♎ 2	17°R54	9°R51	5°R56	13°R52	11♋ 6	26♏D16	27♏42	21♋ 0	7°R32	F 1
S 2	0 45 0	9°19'29	13♐17	0♏23	4°17	29°43	17≈52	9♊50	5♈54	13≈51	11° 6	26♏17	27°39	21° 7	7°30	S 2
S 3	0 48 57	10°18'44	27°15	1°46	5°31	0♏24	17°50	9°48	5°51	13°50	11° 7	26°18	27°36	21°13	7°27	S 3
M 4	0 52 54	11°18'01	11♋20	3° 7	6°45	1° 5	17°48	9°47	5°49	13°50	11° 7	26°R19	27°33	21°20	7°24	M 4
T 5	0 56 50	12°17'20	25°32	4°27	7°59	1°46	17°46	9°46	5°46	13°49	11° 7	26°18	27°29	21°27	7°21	T 5
W 6	1 0 47	13°16'41	9≈48	5°46	9°13	2°28	17°44	9°44	5°44	13°48	11° 7	26°16	27°26	21°34	7°18	W 6
T 7	1 4 43	14°16'03	24° 5	7° 4	10°26	3° 9	17°43	9°42	5°41	13°48	11° 7	26°11	27°23	21°40	7°16	T 7
F 8	1 8 40	15°15'27	8♓20	8°20	11°40	3°50	17°42	9°41	5°39	13°47	11° 7	26° 5	27°20	21°47	7°13	F 8
S 9	1 12 36	16°14'52	22°28	9°35	12°54	4°31	17°41	9°39	5°37	13°47	11° 7	25°59	27°17	21°54	7°10	S 9
S 10	1 16 33	17°14'20	6♈24	10°49	14° 8	5°13	17°40	9°37	5°34	13°46	11° 7	25°52	27°14	22° 0	7° 7	S 10
M 11	1 20 29	18°13'50	20° 5	12° 1	15°22	5°54	17°40	9°35	5°32	13°46	11°R 7	25°47	27°10	22° 7	7° 4	M 11
T 12	1 24 26	19°13'22	3♉27	13°11	16°35	6°36	17°39	9°33	5°30	13°45	11° 7	25°43	27° 7	22°14	7° 2	T 12
W 13	1 28 23	20°12'55	16°29	14°19	17°49	7°17	17°D39	9°30	5°27	13°45	11° 7	25°41	27° 4	22°20	6°59	W 13
T 14	1 32 19	21°12'32	29°12	15°25	19° 3	7°59	17°39	9°28	5°25	13°44	11° 7	25°D41	27° 1	22°27	6°56	T 14
F 15	1 36 16	22°12'10	11♊37	16°29	20°17	8°41	17°40	9°26	5°23	13°44	11° 7	25°42	26°58	22°34	6°54	F 15
S 16	1 40 12	23°11'50	23°46	17°30	21°31	9°22	17°40	9°23	5°20	13°44	11° 7	25°44	26°54	22°41	6°51	S 16
S 17	1 44 9	24°11'33	5♋45	18°29	22°44	10° 4	17°41	9°20	5°18	13°43	11° 7	25°45	26°51	22°47	6°48	S 17
M 18	1 48 5	25°11'18	17°38	19°25	23°58	10°46	17°42	9°18	5°16	13°43	11° 7	25°47	26°48	22°54	6°46	M 18
T 19	1 52 2	26°11'06	29°29	20°17	25°12	11°28	17°43	9°15	5°14	13°43	11° 7	25°R47	26°45	23° 1	6°43	T 19
W 20	1 55 58	27°10'55	11♌24	21° 6	26°25	12°10	17°44	9°12	5°12	13°43	11° 6	25°46	26°42	23° 7	6°40	W 20
T 21	1 59 55	28°10'47	23°27	21°50	27°39	12°52	17°45	9° 9	5° 9	13°42	11° 6	25°44	26°39	23°14	6°38	T 21
F 22	2 3 51	29°10'41	5♍42	22°30	28°53	13°34	17°47	9° 6	5° 7	13°42	11° 6	25°40	26°35	23°21	6°35	F 22
S 23	2 7 48	0♏10'37	18°14	23° 5	0♐ 6	14°16	17°49	9° 3	5° 5	13°42	11° 6	25°36	26°32	23°27	6°33	S 23
S 24	2 11 45	1°10'35	1♎ 4	23°34	1°20	14°58	17°51	8°59	5° 3	13°42	11° 5	25°32	26°29	23°34	6°30	S 24
M 25	2 15 41	2°10'35	14°13	23°57	2°34	15°41	17°53	8°56	5° 1	13°D42	11° 5	25°28	26°26	23°41	6°28	M 25
T 26	2 19 38	3°10'37	27°40	24°14	3°47	16°23	17°56	8°52	4°59	13°42	11° 5	25°25	26°23	23°48	6°25	T 26
W 27	2 23 34	4°10'42	11♏25	24°23	5° 1	17° 5	17°58	8°49	4°57	13°42	11° 4	25°24	26°19	23°54	6°23	W 27
T 28	2 27 31	5°10'48	25°23	24°R24	6°15	17°48	18° 1	8°45	4°55	13°42	11° 4	25°D23	26°16	24° 1	6°21	T 28
F 29	2 31 27	6°10'56	9♐32	24°16	7°28	18°30	18° 4	8°42	4°53	13°42	11° 4	25°24	26°13	24° 8	6°18	F 29
S 30	2 35 24	7°11'05	23°47	23°59	8°42	19°13	18° 7	8°38	4°51	13°42	11° 3	25°25	26°10	24°14	6°16	S 30
S 31	2 39 20	8♏11'16	8♑ 4	23♏33	9♐55	19♏56	18≈11	8♊34	4♈49	13≈43	11♋ 3	25♏26	26♏ 7	24♋21	6♈14	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚷	⚸	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3s19	19s47	0n17	12s31	1s28	12s24	0n10	11s 3	0n 6	16s36	1s10	20n 3	1s56	1n41	0s45	16s55	0s14	21n 7	1s55	19s21	19s41	17n45	5n14	2n26
S 2	3 42	20 56	1 31	13 7	1 35	12 52	0 7	11 19	0 5	16 37	1 10	20 3	1 56	1 40	0 45	16 55	0 14	21 7	1 55	19 21	19 40	17 44	5 13	2 26
S 3	4 5	20 48	2 39	13 42	1 42	13 19	0 4	11 34	0 5	16 37	1 10	20 3	1 56	1 39	0 45	16 55	0 14	21 7	1 55	19 22	19 39	17 42	5 12	2 26
M 4	4 29	19 21	3 39	14 16	1 49	13 46	0 1	11 48	0 4	16 38	1 10	20 2	1 56	1 38	0 45	16 55	0 14	21 7	1 55	19 22	19 39	17 41	5 11	2 26
T 5	4 52	16 43	4 26	14 50	1 55	14 13	0s 1	12 3	0 4	16 38	1 10	20 2	1 56	1 37	0 45	16 56	0 14	21 7	1 55	19 22	19 38	17 39	5 9	2 26
W 6	5 15	13 3	4 57	15 23	2 2	14 39	0 4	12 18	0 3	16 39	1 10	20 1	1 56	1 36	0 45	16 56	0 14	21 7	1 55	19 21	19 37	17 38	5 8	2 26
T 7	5 38	8 39	5 9	15 55	2 8	15 5	0 7	12 33	0 2	16 39	1 9	20 1	1 57	1 35	0 45	16 56	0 14	21 7	1 55	19 20	19 37	17 36	5 7	2 26
F 8	6 1	3 47	5 16	16 25	2 14	15 31	0 10	12 47	0 2	16 39	1 9	20 1	1 57	1 34	0 45	16 56	0 14	21 7	1 55	19 19	19 36	17 35	5 6	2 25
S 9	6 24	1n15	4 37	16 55	2 20	15 56	0 13	13 2	0 1	16 39	1 9	20 1	1 57	1 33	0 45	16 56	0 14	21 7	1 55	19 17	19 35	17 33	5 5	2 25
S 10	6 47	6 9	3 56	17 24	2 25	16 21	0 15	13 17	0 0	16 39	1 9	20 0	1 57	1 32	0 45	16 57	0 14	21 7	1 55	19 15	19 34	17 31	5 3	2 25
M 11	7 10	10 40	3 2	17 51	2 31	16 46	0 18	13 31	0s 0	16 40	1 9	20 0	1 57	1 31	0 45	16 57	0 14	21 7	1 55	19 14	19 34	17 30	5 2	2 25
T 12	7 32	14 32	1 58	18 18	2 36	17 10	0 21	13 45	0 1	16 40	1 9	19 59	1 57	1 30	0 45	16 57	0 14	21 7	1 55	19 13	19 33	17 28	5 1	2 25
W 13	7 55	17 36	0 50	18 43	2 41	17 33	0 24	13 59	0 1	16 39	1 9	19 59	1 57	1 29	0 45	16 57	0 14	21 7	1 55	19 12	19 32	17 27	5 0	2 25
T 14	8 17	19 42	0s19	19 7	2 45	17 56	0 27	14 14	0 2	16 39	1 9	19 58	1 57	1 29	0 44	16 57	0 14	21 7	1 55	19 11	19 31	17 25	4 59	2 25
F 15	8 40	20 48	1 26	19 29	2 49	18 19	0 30	14 28	0 3	16 39	1 8	19 58	1 57	1 28	0 44	16 57	0 14	21 7	1 54	19 13	19 31	17 24	4 58	2 25
S 16	9 2	20 53	2 28	19 50	2 52	18 41	0 32	14 42	0 3	16 39	1 8	19 58	1 57	1 27	0 44	16 57	0 14	21 7	1 54	19 13	19 30	17 22	4 56	2 25
S 17	9 24	20 0	3 22	20 10	2 55	19 3	0 35	14 55	0 4	16 38	1 8	19 57	1 58	1 26	0 44	16 57	0 14	21 7	1 54	19 14	19 29	17 21	4 55	2 24
M 18	9 46	18 14	4 7	20 28	2 58	19 25	0 38	15 9	0 4	16 38	1 8	19 57	1 58	1 25	0 44	16 57	0 14	21 7	1 54	19 14	19 28	17 19	4 54	2 24
T 19	10 8	15 42	4 41	20 44	3 0	19 45	0 41	15 23	0 5	16 38	1 8	19 56	1 58	1 24	0 44	16 58	0 14	21 7	1 54	19 13	19 28	17 17	4 53	2 24
W 20	10 29	12 31	5 4	20 58	3 1	20 6	0 44	15 36	0 6	16 37	1 8	19 56	1 58	1 23	0 44	16 58	0 14	21 7	1 54	19 13	19 27	17 16	4 52	2 24
T 21	10 51	8 47	5 13	21 11	3 2	20 25	0 46	15 50	0 6	16 37	1 7	19 55	1 58	1 22	0 44	16 58	0 14	21 7	1 54	19 13	19 26	17 14	4 51	2 24
F 22	11 12	4 39	5 9	21 21	3 2	20 45	0 49	16 3	0 7	16 36	1 7	19 54	1 58	1 22	0 44	16 58	0 14	21 7	1 54	19 13	19 26	17 13	4 49	2 24
S 23	11 33	0 13	4 50	21 29	3 1	21 3	0 52	16 16	0 8	16 35	1 7	19 54	1 58	1 21	0 44	16 58	0 14	21 7	1 54	19 13	19 25	17 11	4 48	2 24
S 24	11 54	4s20	4 16	21 35	2 59	21 21	0 55	16 29	0 7	16 34	1 7	19 53	1 58	1 20	0 44	16 58	0 14	21 7	1 54	19 24	17 10	4 47	2 23	
M 25	12 15	8 48	3 28	21 37	2 55	21 39	0 57	16 42	0 9	16 34	1 7	19 53	1 58	1 19	0 44	16 58	0 14	21 7	1 54	19 23	17 9	4 46	2 23	
T 26	12 36	12 57	2 27	21 38	2 51	21 56	1 0	16 55	0 9	16 33	1 7	19 52	1 58	1 18	0 44	16 58	0 14	21 7	1 54	19 23	17 7	4 45	2 23	
W 27	12 56	16 29	1 16	21 34	2 46	22 12	1 3	17 8	0 10	16 32	1 7	19 51	1 58	1 18	0 44	16 58	0 14	21 7	1 54	19 22	17 5	4 44	2 23	
T 28	13 16	19 8	0 0	21 28	2 39	22 28	1 6	17 20	0 11	16 31	1 7	19 51	1 58	1 17	0 44	16 59	0 14	21 7	1 54	19 21	17 3	4 43	2 23	
F 29	13 36	20 39	1n17	21 21	2 31	22 43	1 8	17 33	0 11	16 30	1 7	19 50	1 58	1 16	0 44	16 59	0 14	21 7	1 54	19 20	17 0	4 42	2 23	
S 30	13 56	20 50	2 30	21 4	2 21	22 57	1 11	17 45	0 12	16 29	1 6	19 50	1 59	1 15	0 44	16 59	0 14	21 7	1 54	19 20	17 0	4 41	2 23	
S 31	14s16	19s40	3n35	20s46	2s 9	23s11	1s13	17s57	0s12	16s27	1s 6	19n49	1s59	1n15	0s44	16s58	0s14	21n 7	1s54	19s 9	19s19	16n58	4n40	2n23

NOVEMBER 1677 GC   00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚷	⚸	Day
M 1	2 43 17	9♏11'29	22♑21	22R57	22R57	11♐ 9	20♏38	18≈15	8R30	4R47	13≈43	11R 2	25♏27	26♏ 4	24♋28	6R11	M 1
T 2	2 47 14	10°11'43	6≈34	22♏11	12°22	21°21	18°18	8Ⅱ26	4♈45	13°43	11♋ 2	25R28	26° 0	24°34	6♈ 9	T 2
W 3	2 51 10	11°11'59	20°42	21°16	13°36	22° 4	18°22	8°22	4°43	13°43	11° 1	25°28	25°57	24°41	6° 7	W 3
T 4	2 55 7	12°12'16	4♓42	20°12	14°49	22°46	18°27	8°18	4°42	13°44	11° 1	25°27	25°54	24°48	6° 5	T 4
F 5	2 59 3	13°12'34	18°33	19° 1	16° 3	23°29	18°31	8°14	4°40	13°44	11° 0	25°25	25°51	24°55	6° 3	F 5
S 6	3 3 0	14°12'54	2♈13	17°45	17°16	24°12	18°36	8° 9	4°38	13°44	10°59	25°24	25°48	25° 1	6° 1	S 6
S 7	3 6 56	15°13'16	15°42	16°25	18°30	24°55	18°40	8° 5	4°36	13°45	10°59	25°22	25°45	25° 8	5°59	S 7
M 8	3 10 53	16°13'39	28°56	15° 5	19°43	25°38	18°45	8° 1	4°35	13°45	10°58	25°21	25°41	25°15	5°57	M 8
T 9	3 14 49	17°14'03	11♉57	13°47	20°56	26°21	18°50	7°56	4°33	13°46	10°58	25°21	25°38	25°21	5°55	T 9
W10	3 18 46	18°14'30	24°43	12°33	22°10	27° 5	18°56	7°52	4°32	13°46	10°57	25°D20	25°35	25°28	5°53	W10
T 11	3 22 43	19°14'57	7Ⅱ14	11°25	23°23	27°48	19° 1	7°47	4°30	13°47	10°56	25°21	25°32	25°35	5°51	T 11
F 12	3 26 39	20°15'27	19°33	10°27	24°36	28°31	19° 7	7°43	4°29	13°47	10°55	25°21	25°29	25°41	5°49	F 12
S 13	3 30 36	21°15'58	1♋39	9°39	25°49	29°14	19°12	7°38	4°27	13°48	10°55	25°21	25°25	25°48	5°47	S 13
S 14	3 34 32	22°16'31	13°37	9° 2	27° 3	29°58	19°18	7°34	4°26	13°49	10°54	25°22	25°22	25°55	5°46	S 14
M15	3 38 29	23°17'06	25°30	8°36	28°16	0♐41	19°25	7°29	4°24	13°49	10°53	25°22	25°19	26° 2	5°44	M15
T 16	3 42 25	24°17'42	7♌21	8°23	29°29	1°25	19°31	7°24	4°23	13°50	10°52	25°22	25°16	26° 8	5°42	T 16
W17	3 46 22	25°18'21	19°15	8°D20	0♑42	2° 8	19°37	7°19	4°22	13°51	10°52	25°22	25°13	26°15	5°41	W17
T 18	3 50 18	26°19'00	1♍16	8°29	1°55	2°52	19°44	7°15	4°21	13°52	10°51	25°22	25°10	26°22	5°39	T 18
F 19	3 54 15	27°19'42	13°30	8°47	3° 8	3°35	19°51	7°10	4°19	13°52	10°50	25°22	25° 6	26°28	5°38	F 19
S 20	3 58 12	28°20'25	26° 0	9°15	4°21	4°19	19°58	7° 5	4°18	13°53	10°49	25°23	25° 3	26°35	5°36	S 20
S 21	4 2 8	29°21'09	8♎50	9°51	5°34	5° 3	20° 5	7° 0	4°17	13°54	10°48	25°23	25° 0	26°42	5°35	S 21
M22	4 6 5	0♐21'56	22° 4	10°34	6°47	5°47	20°12	6°55	4°16	13°55	10°47	25°24	24°57	26°49	5°33	M22
T 23	4 10 1	1°22'43	5♏41	11°24	8° 0	6°31	20°20	6°50	4°15	13°56	10°46	25°24	24°54	26°55	5°32	T 23
W24	4 13 58	2°23'32	19°42	12°19	9°13	7°15	20°27	6°45	4°14	13°57	10°45	25°R24	24°51	27° 2	5°31	W24
T 25	4 17 54	3°24'23	4♐ 3	13°20	10°26	7°59	20°35	6°40	4°13	13°58	10°45	25°24	24°47	27° 9	5°30	T 25
F 26	4 21 51	4°25'15	18°39	14°25	11°39	8°43	20°43	6°35	4°12	13°59	10°44	25°24	24°44	27°15	5°29	F 26
S 27	4 25 47	5°26'08	3♑23	15°34	12°52	9°27	20°51	6°31	4°12	14° 0	10°43	25°23	24°41	27°22	5°28	S 27
S 28	4 29 44	6°27'02	18° 9	16°46	14° 4	10°11	20°59	6°26	4°11	14° 1	10°42	25°22	24°38	27°29	5°27	S 28
M29	4 33 41	7°27'56	2≈49	18° 1	15°17	10°55	21° 8	6°21	4°10	14° 2	10°41	25°20	24°35	27°35	5°26	M29
T 30	4 37 37	8♐28'52	17≈18	19♏18	16♑30	11♐39	21≈16	6Ⅱ16	4♈ 9	14≈ 4	10♋40	25♏19	24♏31	27♋42	5♈25	T 30

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
M 1	14s35	17s16	4n25	20s24	1s56	23s24	1s16	18s 9	0s13	16s26	1s 6	19n48	1s59	1n14	0s44	16s58	0s14	21n 7	1s54	19s 9	19s18	16n57	4n39	2n23
T 2	14 54	13 50	4 59	19 58	1 41	23 37	1 18	18 21	0 14	16 25	1 6	19 48	1 59	1 13	0 44	16 57	0 14	21 7	1 54	19 10	19 17	16 55	4 38	2 23
W 3	15 13	9 38	5 15	19 28	1 24	23 48	1 21	18 33	0 14	16 23	1 6	19 47	1 59	1 12	0 44	16 57	0 14	21 7	1 54	19 10	19 17	16 53	4 37	2 22
T 4	15 31	4 57	5 12	18 53	1 6	24 0	1 23	18 44	0 15	16 22	1 6	19 46	1 59	1 12	0 44	16 57	0 14	21 8	1 54	19 9	19 16	16 52	4 36	2 22
F 5	15 50	0 4	4 51	18 16	0 47	24 10	1 26	18 56	0 15	16 20	1 6	19 46	1 59	1 11	0 44	16 57	0 14	21 8	1 54	19 9	19 15	16 50	4 35	2 22
S 6	16 8	4n46	4 14	17 35	0 27	24 20	1 28	19 7	0 16	16 19	1 5	19 45	1 59	1 10	0 44	16 57	0 14	21 8	1 54	19 9	19 14	16 49	4 34	2 22
S 7	16 26	9 18	3 22	16 53	0 6	24 29	1 30	19 18	0 17	16 17	1 5	19 44	1 59	1 10	0 44	16 57	0 14	21 8	1 54	19 8	19 14	16 47	4 33	2 22
M 8	16 43	13 19	2 21	16 10	0n14	24 37	1 32	19 29	0 17	16 16	1 5	19 44	1 59	1 9	0 44	16 57	0 14	21 8	1 54	19 8	19 13	16 45	4 32	2 22
T 9	17 0	16 37	1 14	15 27	0 34	24 45	1 35	19 40	0 18	16 14	1 5	19 43	1 59	1 8	0 44	16 57	0 14	21 8	1 54	19 8	19 12	16 44	4 31	2 21
W10	17 17	19 2	0 3	14 46	0 54	24 51	1 37	19 50	0 18	16 12	1 5	19 42	1 59	1 8	0 44	16 57	0 14	21 8	1 54	19 8	19 11	16 42	4 30	2 21
T 11	17 34	20 29	1s 6	14 9	1 12	24 58	1 39	20 1	0 19	16 10	1 5	19 41	1 59	1 7	0 44	16 56	0 14	21 8	1 54	19 8	19 11	16 40	4 29	2 21
F 12	17 50	20 54	2 10	13 35	1 28	25 3	1 41	20 11	0 20	16 8	1 5	19 41	1 59	1 7	0 44	16 56	0 14	21 8	1 54	19 8	19 10	16 39	4 28	2 21
S 13	18 6	20 20	3 8	13 6	1 43	25 8	1 43	20 20	0 20	16 6	1 4	19 40	1 59	1 6	0 44	16 56	0 14	21 8	1 54	19 8	19 10	16 37	4 27	2 21
S 14	18 22	18 51	3 57	12 43	1 55	25 12	1 45	20 31	0 21	16 4	1 4	19 39	1 59	1 6	0 44	16 56	0 14	21 8	1 54	19 8	19 9	16 36	4 26	2 21
M15	18 38	16 34	4 35	12 25	2 6	25 15	1 47	20 41	0 21	16 2	1 4	19 39	1 59	1 5	0 44	16 56	0 14	21 8	1 54	19 8	19 9	16 34	4 26	2 20
T 16	18 53	13 36	5 2	12 14	2 14	25 17	1 48	20 50	0 22	16 0	1 4	19 38	1 59	1 5	0 44	16 55	0 14	21 9	1 54	19 7	19 8	16 32	4 25	2 20
W17	19 7	10 4	5 16	12 5	2 21	25 19	1 50	21 0	0 23	15 58	1 4	19 37	1 59	1 4	0 44	16 55	0 14	21 9	1 54	19 6	16 31	4 24	2 20
T 18	19 22	6 7	5 16	12 4	2 25	25 20	1 52	21 9	0 23	15 56	1 4	19 36	1 59	1 4	0 44	16 55	0 14	21 9	1 54	19 5	16 29	4 23	2 20
F 19	19 36	1 51	5 2	12 7	2 28	25 20	1 53	21 18	0 24	15 54	1 4	19 36	1 59	1 3	0 44	16 55	0 14	21 9	1 54	19 4	16 27	4 23	2 20
S 20	19 49	2s35	4 33	12 14	2 30	25 19	1 55	21 26	0 24	15 51	1 4	19 35	1 59	1 3	0 44	16 55	0 14	21 9	1 54	19 4	16 26	4 22	2 19
S 21	20 3	7 3	3 51	12 25	2 30	25 18	1 56	21 35	0 25	15 49	1 3	19 34	1 59	1 2	0 43	16 54	0 14	21 9	1 54	19 3	16 24	4 21	2 19
M22	20 16	11 18	2 55	12 39	2 29	25 16	1 58	21 43	0 25	15 47	1 3	19 33	1 58	1 2	0 43	16 54	0 14	21 9	1 54	19 2	16 22	4 20	2 19
T 23	20 28	15 8	1 47	12 56	2 27	25 13	1 59	21 52	0 26	15 44	1 3	19 33	1 58	1 2	0 43	16 54	0 14	21 9	1 54	19 1	16 21	4 20	2 19
W24	20 40	18 12	0 32	13 16	2 25	25 9	2 0	22 0	0 27	15 41	1 3	19 32	1 58	1 1	0 43	16 53	0 14	21 9	1 54	19 0	16 19	4 19	2 19
T 25	20 52	20 13	0n48	13 38	2 21	25 5	2 1	22 7	0 27	15 39	1 3	19 31	1 58	1 1	0 43	16 53	0 14	21 9	1 54	18 59	16 17	4 18	2 19
F 26	21 4	20 55	2 5	14 1	2 17	25 0	2 2	22 15	0 28	15 36	1 3	19 30	1 58	1 0	0 43	16 53	0 14	21 10	1 54	18 59	16 16	4 18	2 18
S 27	21 15	20 11	3 15	14 26	2 12	24 54	2 3	22 22	0 28	15 34	1 3	19 29	1 58	1 0	0 43	16 53	0 14	21 10	1 54	18 58	16 14	4 17	2 18
S 28	21 25	18 5	4 12	14 51	2 6	24 48	2 4	22 29	0 29	15 31	1 3	19 29	1 58	1 0	0 43	16 52	0 14	21 10	1 54	18 58	16 12	4 17	2 18
M29	21 34	14 49	4 53	15 18	1 58	24 40	2 5	22 36	0 29	15 28	1 3	19 28	1 58	1 0	0 43	16 52	0 14	21 10	1 54	18 57	16 11	4 16	2 18
T 30	21s45	10s42	5n13	15s45	1n54	24s32	2s 6	22s43	0s30	15s25	1s 2	19n27	1s58	1n 0	0s43	16s52	0s14	21n10	1s53	19s 7	18s56	16n 9	4n15	2n18

DECEMBER 1677 GC   00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚷	⚸	Day
W 1	4 41 34	9♐29'48	1♓31	20♏37	17♑42	12♐24	21♒25	6♊R11	4♈R 9	14♒ 5	10♋R39	25♏R18	24♏28	27♋49	5♈R24	W 1
T 2	4 45 30	10♐30'45	15♓27	21♏58	18♑55	13° 8	21°34	6♊ 6	4♈ 8	14° 6	10♋37	25♏D18	24°25	27°56	5♈23	T 2
F 3	4 49 27	11♐31'42	29♓ 6	23♏21	20° 7	13°52	21°42	6° 1	4° 8	14° 7	10°36	25°19	24°22	28° 2	5°22	F 3
S 4	4 53 23	12♐32'40	12♈27	24♏45	21°20	14°37	21°51	5°56	4° 7	14° 9	10°35	25°20	24°19	28° 9	5°21	S 4
S 5	4 57 20	13♐33'39	25♈32	26♏10	22°32	15°21	22° 1	5°51	4° 7	14°10	10°34	25°21	24°16	28°16	5°21	S 5
M 6	5 1 16	14♐34'39	8♉23	27♏36	23°45	16° 6	22°10	5°46	4° 6	14°11	10°33	25°23	24°12	28°22	5°20	M 6
T 7	5 5 13	15♐35'39	21♉ 1	29♏ 3	24°57	16°50	22°19	5°41	4° 6	14°13	10°32	25♏R23	24° 9	28°29	5°20	T 7
W 8	5 9 10	16♐36'40	3♊28	0♐30	26° 9	17°35	22°29	5°37	4° 6	14°14	10°31	25°23	24° 6	28°36	5°19	W 8
T 9	5 13 6	17♐37'42	15♊45	1°59	27°21	18°20	22°39	5°32	4° 6	14°15	10°30	25°22	24° 3	28°43	5°19	T 9
F 10	5 17 3	18♐38'44	27♊54	3°27	28°33	19° 4	22°49	5°27	4° 5	14°17	10°29	25°19	24° 0	28°49	5°18	F 10
S 11	5 20 59	19♐39'47	9♋55	4°57	29°45	19°49	22°59	5°22	4° 5	14°18	10°27	25°16	23°57	28°56	5°18	S 11
S 12	5 24 56	20♐40'51	21♋50	6°26	0♒57	20°34	23° 9	5°18	4° 5	14°20	10°26	25°11	23°53	29° 3	5°18	S 12
M 13	5 28 52	21♐41'56	3♌42	7°57	2° 9	21°19	23°19	5°13	4♈D 5	14°21	10°25	25° 6	23°50	29° 9	5°18	M 13
T 14	5 32 49	22♐43'01	15♌33	9°27	3°21	22° 4	23°29	5° 8	4° 5	14°23	10°24	25° 2	23°47	29°16	5°18	T 14
W 15	5 36 46	23♐44'07	27♌26	10°58	4°32	22°49	23°39	5° 4	4° 5	14°25	10°23	24°58	23°44	29°23	5°17	W 15
T 16	5 40 42	24♐45'14	9♍25	12°29	5°44	23°34	23°50	4°59	4° 6	14°26	10°22	24°55	23°41	29°30	5♈D17	T 16
F 17	5 44 39	25♐46'21	21♍35	14° 0	6°56	24°19	24° 1	4°55	4° 6	14°28	10°20	24°54	23°37	29°36	5°17	F 17
S 18	5 48 35	26♐47'30	4♎ 0	15°32	8° 7	25° 4	24°11	4°50	4° 6	14°29	10°19	24♏D54	23°34	29°43	5°18	S 18
S 19	5 52 32	27♐48'38	16♎44	17° 4	9°19	25°49	24°22	4°46	4° 6	14°31	10°18	24°55	23°31	29°50	5°18	S 19
M 20	5 56 28	28♐49'48	29♎52	18°36	10°30	26°34	24°33	4°42	4° 7	14°33	10°17	24°57	23°28	29°56	5°18	M 20
T 21	6 0 25	29♐50'58	13♏26	20° 8	11°41	27°20	24°44	4°38	4° 7	14°35	10°15	24°59	23°25	0♌ 3	5°18	T 21
W 22	6 4 21	0♑52'09	27♏29	21°41	12°52	28° 5	24°56	4°33	4° 7	14°36	10°14	24♏R59	23°22	0°10	5°19	W 22
T 23	6 8 18	1♑53'20	11♐58	23°14	14° 3	28°50	25° 7	4°29	4° 8	14°38	10°13	24°58	23°18	0°17	5°19	T 23
F 24	6 12 15	2♑54'32	26♐49	24°47	15°14	29°36	25°18	4°25	4° 9	14°40	10°12	24°55	23°15	0°23	5°19	F 24
S 25	6 16 11	3♑55'44	11♑55	26°21	16°25	0♑21	25°30	4°21	4° 9	14°42	10°10	24°50	23°12	0°30	5°20	S 25
S 26	6 20 8	4♑56'56	27♑ 6	27°55	17°36	1° 7	25°41	4°17	4°10	14°44	10° 9	24°44	23° 9	0°37	5°20	S 26
M 27	6 24 4	5♑58'08	12♒12	29°29	18°46	1°52	25°53	4°14	4°11	14°45	10° 8	24°37	23° 6	0°43	5°21	M 27
T 28	6 28 1	6♑59'19	27♒ 3	1♑ 3	19°57	2°38	26° 5	4°10	4°11	14°47	10° 7	24°31	23° 3	0°50	5°22	T 28
W 29	6 31 57	8♑ 0'31	11♓33	2°38	21° 7	3°23	26°17	4° 6	4°12	14°49	10° 5	24°27	22°59	0°57	5°22	W 29
T 30	6 35 54	9♑ 1'42	25♓38	4°13	22°17	4° 9	26°29	4° 3	4°13	14°51	10° 4	24°24	22°56	1° 4	5°23	T 30
F 31	6 39 50	10♑ 2'52	9♈18	5♑49	23♒28	4♑55	26♒41	3♊59	4♈14	14♒53	10♋ 3	24♏D23	22♏53	1♌10	5♈24	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚷	⚸	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21s55	6s 3	5n15	16s12	1n48	24s24	2s 6	22s49	0s31	15s22	1s 2	19n26	1s58	0n59	0s43	16s51	0s14	21n10	1s53	19s 7	18s55	16n 7	4n15	2n17
T 2	22 4	1 10	4 57	16 40	1 41	24 14	2 7	22 56	0 31	15 19	1 2	19 26	1 58	0 59	0 43	16 51	0 14	21 10	1 53	19 7	18 54	16 6	4 14	2 17
F 3	22 12	3n40	4 23	17 7	1 34	24 4	2 7	23 2	0 32	15 16	1 2	19 25	1 58	0 59	0 43	16 51	0 14	21 10	1 53	19 7	18 54	16 4	4 14	2 17
S 4	22 20	8 14	3 36	17 35	1 27	23 53	2 8	23 7	0 32	15 13	1 2	19 24	1 58	0 59	0 43	16 50	0 14	21 10	1 53	19 8	18 53	16 2	4 13	2 17
S 5	22 28	12 20	2 38	18 2	1 20	23 42	2 8	23 13	0 33	15 10	1 2	19 23	1 57	0 59	0 43	16 50	0 14	21 11	1 53	19 8	18 52	16 1	4 13	2 17
M 6	22 35	15 47	1 33	18 29	1 12	23 30	2 8	23 18	0 33	15 7	1 2	19 23	1 57	0 59	0 43	16 49	0 14	21 11	1 53	19 8	18 51	15 59	4 13	2 16
T 7	22 42	18 26	0 24	18 55	1 5	23 17	2 8	23 23	0 34	15 4	1 2	19 22	1 57	0 59	0 43	16 49	0 14	21 11	1 53	19 9	18 51	15 57	4 12	2 16
W 8	22 48	20 9	0s44	19 21	0 58	23 3	2 8	23 28	0 34	15 1	1 2	19 21	1 57	0 59	0 43	16 49	0 14	21 11	1 53	19 9	18 50	15 55	4 12	2 16
T 9	22 54	20 54	1 50	19 46	0 50	22 49	2 8	23 33	0 35	14 57	1 1	19 21	1 57	0 59	0 43	16 48	0 14	21 11	1 53	19 8	18 49	15 54	4 11	2 16
F 10	23 0	20 38	2 49	20 11	0 43	22 35	2 8	23 37	0 36	14 54	1 1	19 20	1 57	0 58	0 43	16 48	0 14	21 11	1 53	19 8	18 48	15 52	4 11	2 16
S 11	23 5	19 26	3 41	20 35	0 35	22 19	2 8	23 41	0 36	14 51	1 1	19 19	1 57	0 58	0 43	16 47	0 14	21 11	1 53	19 7	18 47	15 50	4 11	2 15
S 12	23 9	17 24	4 22	20 58	0 28	22 3	2 7	23 45	0 37	14 47	1 1	19 19	1 57	0 58	0 43	16 47	0 14	21 11	1 53	19 6	18 47	15 49	4 11	2 15
M 13	23 13	14 38	4 52	21 20	0 20	21 46	2 7	23 49	0 37	14 44	1 1	19 18	1 56	0 59	0 43	16 46	0 14	21 12	1 53	19 4	18 46	15 47	4 10	2 15
T 14	23 17	11 17	5 9	21 41	0 13	21 29	2 6	23 52	0 38	14 40	1 1	19 17	1 56	0 59	0 43	16 46	0 14	21 12	1 53	19 3	18 45	15 45	4 10	2 15
W 15	23 20	7 29	5 13	22 2	0 6	21 11	2 5	23 55	0 38	14 37	1 1	19 16	1 56	0 59	0 43	16 46	0 14	21 12	1 53	19 2	18 44	15 44	4 10	2 15
T 16	23 23	3 22	5 3	22 21	0s 1	20 53	2 5	23 58	0 39	14 33	1 1	19 16	1 56	0 59	0 43	16 45	0 14	21 12	1 53	19 1	18 43	15 42	4 10	2 14
F 17	23 25	0s57	4 40	22 39	0 8	20 34	2 4	24 1	0 39	14 30	1 1	19 15	1 56	0 59	0 42	16 45	0 14	21 12	1 53	19 1	18 43	15 40	4 9	2 14
S 18	23 26	5 19	4 3	22 57	0 15	20 15	2 3	24 3	0 40	14 26	1 1	19 15	1 56	0 59	0 42	16 44	0 14	21 12	1 53	19 0	18 42	15 38	4 9	2 14
S 19	23 28	9 34	3 14	23 13	0 22	19 55	2 2	24 5	0 40	14 22	1 0	19 14	1 55	0 59	0 42	16 44	0 14	21 13	1 53	18 59	18 41	15 37	4 9	2 14
M 20	23 28	13 31	2 13	23 28	0 29	19 34	2 1	24 7	0 41	14 18	1 0	19 13	1 55	0 59	0 42	16 43	0 14	21 13	1 53	18 58	18 40	15 35	4 9	2 13
T 21	23 29	16 54	1 3	23 42	0 35	19 13	1 59	24 8	0 41	14 15	1 0	19 13	1 55	1 0	0 42	16 43	0 14	21 13	1 53	18 57	18 39	15 33	4 9	2 13
W 22	23 29	19 25	0n14	23 55	0 42	18 52	1 58	24 10	0 42	14 11	1 0	19 12	1 55	1 0	0 42	16 42	0 14	21 13	1 53	18 56	18 39	15 31	4 9	2 13
T 23	23 28	20 45	1 31	24 6	0 48	18 30	1 56	24 11	0 42	14 7	1 0	19 11	1 55	1 0	0 42	16 42	0 14	21 13	1 52	18 56	18 38	15 30	4 9	2 13
F 24	23 27	20 42	2 44	24 17	0 54	18 7	1 55	24 12	0 43	14 3	1 0	19 11	1 55	1 0	0 42	16 41	0 14	21 13	1 52	18 55	18 37	15 28	4 9	2 13
S 25	23 25	19 10	3 47	24 26	1 0	17 44	1 53	24 12	0 43	13 59	1 0	19 11	1 54	1 0	0 42	16 41	0 14	21 13	1 52	18 54	18 36	15 26	4 9	2 13
S 26	23 23	16 17	4 35	24 33	1 6	17 21	1 51	24 12	0 44	13 55	1 0	19 10	1 54	1 0	0 42	16 40	0 14	21 13	1 52	18 59	18 35	15 25	4 9	2 12
M 27	23 21	12 20	5 2	24 40	1 11	16 57	1 49	24 12	0 44	13 51	1 0	19 10	1 54	1 0	0 42	16 39	0 14	21 13	1 52	18 57	18 35	15 25	4 9	2 12
T 28	23 18	7 40	5 9	24 45	1 16	16 34	1 47	24 12	0 45	13 47	1 0	19 9	1 54	1 0	0 42	16 39	0 14	21 13	1 52	18 56	18 34	15 23	4 9	2 12
W 29	23 14	2 41	4 56	24 49	1 22	16 8	1 45	24 11	0 45	13 43	1 0	19 8	1 53	1 2	0 42	16 38	0 14	21 14	1 52	18 55	18 33	15 19	4 9	2 12
T 30	23 10	2n19	4 25	24 51	1 26	15 43	1 42	24 11	0 46	13 39	1 0	19 8	1 53	1 2	0 42	16 38	0 14	21 14	1 52	18 54	18 32	15 18	4 9	2 12
F 31	23s6	7n3	3n40	24s52	1s31	15s18	1s40	24s10	0s46	13s35	1s 0	19n 8	1s53	1n 3	0s42	16s37	0s14	21n14	1s52	18s54	18s31	15n16	4n10	2n11

Julian Day Number = 2333906.5, Delta T = 24.87 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'40, Lahiri = 19°21'40Greg. Calendar

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