Astrodienst Ephemeris Tables

for the year 1698

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 AG, Dammstr. 23, CH-8702 Zollikon / Zürich, www.astro.com / order@astro.com

ASTRODIENST EPHEMERIS for the year 1698
geocentric

JANUARY 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 44 23	11♑13'00	4♍45	10♑51	15♐36	5♎19	20♏16	7♒37	29°R21	28♓24	7°R33	26°R32	26♎ 0	5♏ 8	25°R57	W 1
T 2	6 48 20	12°14'09	17°19	12°28	16°51	5°42	20°26	7°44	29♊18	28°25	7♌32	26♎27	25°57	5°15	25♌55	T 2
F 3	6 52 17	13°15'18	29°34	14° 6	18° 6	6° 5	20°36	7°50	29°16	28°25	7°30	26°24	25°54	5°22	25°52	F 3
S 4	6 56 13	14°16'28	11♎34	15°44	19°20	6°28	20°47	7°57	29°13	28°26	7°29	26°D24	25°50	5°28	25°49	S 4
S 5	7 0 10	15°17'37	23°24	17°23	20°35	6°50	20°57	8° 4	29°11	28°27	7°28	26°R24	25°47	5°35	25°47	S 5
M 6	7 4 6	16°18'47	5♏11	19° 2	21°50	7°12	21° 7	8°11	29° 8	28°28	7°27	26°23	25°44	5°42	25°44	M 6
T 7	7 8 3	17°19'56	17° 0	20°42	23° 5	7°34	21°17	8°18	29° 6	28°29	7°25	26°22	25°41	5°48	25°41	T 7
W 8	7 11 59	18°21'05	28°56	22°22	24°20	7°55	21°27	8°24	29° 4	28°30	7°24	26°18	25°38	5°55	25°38	W 8
T 9	7 15 56	19°22'15	11♐ 2	24° 2	25°35	8°16	21°36	8°31	29° 1	28°31	7°23	26°11	25°34	6° 1	25°35	T 9
F 10	7 19 52	20°23'24	23°23	25°43	26°50	8°37	21°46	8°38	28°59	28°32	7°21	26° 1	25°31	6° 8	25°31	F 10
S 11	7 23 49	21°24'32	6♑ 0	27°24	28° 5	8°57	21°56	8°45	28°57	28°33	7°20	25°49	25°28	6°15	25°28	S 11
S 12	7 27 46	22°25'40	18°54	29° 6	29°20	9°17	22° 5	8°52	28°54	28°35	7°19	25°36	25°25	6°21	25°25	S 12
M13	7 31 42	23°26'48	2♒ 4	0♒48	0♑34	9°36	22°14	8°59	28°52	28°36	7°17	25°22	25°22	6°28	25°21	M13
T 14	7 35 39	24°27'55	15°27	2°30	1°49	9°56	22°24	9° 6	28°50	28°37	7°16	25° 9	25°19	6°35	25°18	T 14
W15	7 39 35	25°29'01	29° 2	4°13	3° 4	10°14	22°33	9°13	28°47	28°38	7°15	24°58	25°15	6°41	25°14	W15
T 16	7 43 32	26°30'06	12♓46	5°55	4°19	10°33	22°42	9°20	28°45	28°39	7°13	24°50	25°12	6°48	25°10	T 16
F 17	7 47 28	27°31'10	26°37	7°38	5°34	10°51	22°51	9°27	28°43	28°41	7°12	24°46	25° 9	6°55	25° 6	F 17
S 18	7 51 25	28°32'14	10♈33	9°21	6°49	11° 8	22°59	9°34	28°41	28°42	7°11	24°44	25° 6	7° 1	25° 3	S 18
S 19	7 55 21	29°33'16	24°34	11° 3	8° 4	11°25	23° 8	9°42	28°39	28°43	7° 9	24°43	25° 3	7° 8	24°59	S 19
M20	7 59 18	0♒34'17	8♉38	12°46	9°19	11°42	23°16	9°49	28°37	28°45	7° 8	24°43	25° 0	7°15	24°55	M20
T 21	8 3 15	1°35'17	22°46	14°27	10°34	11°58	23°25	9°56	28°35	28°46	7° 6	24°42	24°56	7°21	24°51	T 21
W22	8 7 11	2°36'16	6♊56	16° 8	11°49	12°14	23°33	10° 3	28°33	28°48	7° 5	24°38	24°53	7°28	24°47	W22
T 23	8 11 8	3°37'14	21° 6	17°48	13° 4	12°29	23°41	10°10	28°31	28°49	7° 4	24°32	24°50	7°35	24°42	T 23
F 24	8 15 4	4°38'10	5♋12	19°27	14°19	12°44	23°49	10°17	28°29	28°50	7° 2	24°23	24°47	7°41	24°38	F 24
S 25	8 19 1	5°39'06	19°11	21° 4	15°34	12°58	23°57	10°24	28°27	28°52	7° 1	24°11	24°44	7°48	24°34	S 25
S 26	8 22 57	6°40'00	2♌58	22°39	16°49	13°12	24° 5	10°32	28°25	28°53	6°59	23°59	24°40	7°55	24°30	S 26
M27	8 26 54	7°40'53	16°28	24°11	18° 3	13°25	24°12	10°39	28°23	28°55	6°58	23°46	24°37	8° 1	24°25	M27
T 28	8 30 50	8°41'45	29°40	25°41	19°18	13°38	24°20	10°46	28°21	28°57	6°57	23°35	24°34	8° 8	24°21	T 28
W29	8 34 47	9°42'37	12♍31	27° 6	20°33	13°51	24°27	10°53	28°19	28°58	6°55	23°26	24°31	8°14	24°16	W29
T 30	8 38 44	10°43'27	25° 3	28°28	21°48	14° 2	24°34	11° 0	28°18	29° 0	6°54	23°20	24°28	8°21	24°12	T 30
F 31	8 42 40	11♒44'16	7♎17	29♒44	23♑ 3	14♎14	24♏41	11♒ 7	28♊16	29♓ 2	6♌52	23♎17	24♎25	8♏28	24♌ 7	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	23s 0	6n 5	3s58	24s51	1s49	21s46	0n57	0n 6	2n25	16s54	0n59	19s 7	0s45	23n43	0n15	1s56	1s24	24n33	6n21	10s15	10s 3	12s29	6n19	6s58
T 2	22 55	2 4	3 12	24 45	1 52	21 56	0 54	0s 2	2 26	16 56	0 59	19 6	0 45	23 43	0 15	1 55	1 24	24 33	6 22	10 13	10 2	12 30	6 20	6 59
F 3	22 49	1s56	2 17	24 38	1 55	22 5	0 52	0 10	2 27	16 59	0 59	19 4	0 45	23 43	0 15	1 55	1 24	24 34	6 22	10 12	10 1	12 32	6 20	6 59
S 4	22 43	5 47	1 18	24 30	1 58	22 14	0 49	0 18	2 28	17 2	0 59	19 2	0 45	23 43	0 15	1 54	1 24	24 34	6 22	10 12	10 0	12 33	6 21	6 59
S 5	22 36	9 21	0 16	24 20	2 0	22 22	0 46	0 26	2 29	17 4	0 59	19 0	0 45	23 43	0 15	1 54	1 24	24 35	6 22	10 12	9 59	12 35	6 21	7 0
M 6	22 29	12 32	0n47	24 8	2 2	22 30	0 44	0 34	2 30	17 7	0 59	18 59	0 45	23 43	0 15	1 54	1 24	24 35	6 22	10 12	9 58	12 36	6 22	7 0
T 7	22 21	15 14	1 47	23 55	2 4	22 36	0 41	0 42	2 31	17 9	0 59	18 57	0 45	23 43	0 15	1 53	1 24	24 36	6 22	10 11	9 56	12 37	6 22	7 1
W 8	22 13	17 18	2 43	23 40	2 5	22 43	0 39	0 49	2 32	17 12	0 59	18 55	0 45	23 43	0 15	1 53	1 24	24 36	6 22	10 10	9 55	12 39	6 23	7 1
T 9	22 4	18 37	3 33	23 24	2 6	22 48	0 36	0 57	2 33	17 14	0 59	18 53	0 45	23 43	0 15	1 52	1 24	24 37	6 23	10 7	9 54	12 40	6 24	7 1
F 10	21 56	19 5	4 14	23 6	2 6	22 53	0 33	1 4	2 34	17 17	1 0	18 52	0 46	23 43	0 15	1 52	1 24	24 37	6 23	10 4	9 53	12 41	6 24	7 2
S 11	21 46	18 38	4 43	22 46	2 6	22 57	0 31	1 11	2 35	17 19	1 0	18 50	0 46	23 43	0 15	1 51	1 24	24 38	6 23	9 59	9 52	12 43	6 25	7 2
S 12	21 36	17 13	4 58	22 25	2 5	23 0	0 28	1 18	2 36	17 21	1 0	18 48	0 46	23 43	0 15	1 51	1 24	24 38	6 23	9 55	9 51	12 44	6 26	7 3
M13	21 26	14 53	4 58	22 2	2 4	23 3	0 25	1 25	2 36	17 24	1 0	18 46	0 46	23 43	0 15	1 50	1 24	24 39	6 23	9 49	9 50	12 45	6 27	7 3
T 14	21 16	11 44	4 42	21 37	2 3	23 5	0 23	1 31	2 37	17 26	1 0	18 44	0 46	23 43	0 15	1 50	1 24	24 39	6 23	9 45	9 48	12 47	6 28	7 3
W15	21 5	7 56	4 9	21 11	2 1	23 6	0 20	1 38	2 38	17 28	1 0	18 43	0 46	23 43	0 15	1 49	1 24	24 40	6 23	9 41	9 47	12 48	6 28	7 3
T 16	20 53	3 40	3 22	20 44	1 58	23 7	0 17	1 44	2 39	17 30	1 0	18 41	0 46	23 43	0 15	1 49	1 24	24 40	6 23	9 38	9 46	12 50	6 29	7 4
F 17	20 41	0n50	2 23	20 15	1 55	23 7	0 15	1 50	2 40	17 32	1 0	18 39	0 46	23 43	0 15	1 48	1 24	24 40	6 24	9 36	9 45	12 51	6 30	7 4
S 18	20 29	5 19	1 14	19 44	1 51	23 6	0 12	1 56	2 41	17 35	1 0	18 37	0 46	23 43	0 15	1 48	1 24	24 41	6 24	9 36	9 44	12 52	6 31	7 4
S 19	20 17	9 33	0 1	19 12	1 47	23 4	0 9	2 2	2 42	17 37	1 0	18 35	0 46	23 43	0 15	1 47	1 24	24 41	6 24	9 35	9 43	12 54	6 32	7 5
M20	20 4	13 15	1s13	18 38	1 42	23 2	0 7	2 8	2 43	17 39	1 0	18 33	0 46	23 43	0 15	1 47	1 23	24 42	6 24	9 35	9 41	12 55	6 33	7 5
T 21	19 50	16 12	2 23	18 3	1 36	22 59	0 4	2 13	2 44	17 41	1 1	18 32	0 46	23 43	0 15	1 46	1 23	24 42	6 24	9 35	9 40	12 56	6 35	7 5
W22	19 37	18 9	3 23	17 27	1 30	22 55	0 2	2 18	2 45	17 43	1 1	18 30	0 46	23 43	0 15	1 45	1 23	24 43	6 24	9 34	9 39	12 58	6 36	7 5
T 23	19 22	18 59	4 12	16 50	1 22	22 51	0s 1	2 23	2 46	17 45	1 1	18 28	0 46	23 43	0 15	1 45	1 23	24 43	6 24	9 31	9 38	12 59	6 37	7 5
F 24	19 8	18 38	4 44	16 11	1 15	22 46	0 4	2 28	2 47	17 46	1 1	18 26	0 46	23 43	0 15	1 44	1 23	24 44	6 24	9 28	9 37	13 0	6 38	7 6
S 25	18 53	17 9	5 0	15 32	1 6	22 40	0 6	2 33	2 48	17 48	1 1	18 24	0 46	23 43	0 15	1 44	1 23	24 44	6 24	9 24	9 36	13 2	6 39	7 6
S 26	18 38	14 42	4 57	14 52	0 56	22 34	0 9	2 37	2 49	17 50	1 1	18 22	0 46	23 43	0 15	1 43	1 23	24 45	6 24	9 19	9 34	13 3	6 41	7 6
M27	18 23	11 30	4 38	14 12	0 46	22 27	0 11	2 41	2 50	17 52	1 1	18 20	0 46	23 43	0 15	1 42	1 23	24 45	6 24	9 14	9 33	13 4	6 42	7 6
T 28	18 7	7 48	4 4	13 31	0 35	22 19	0 14	2 45	2 51	17 54	1 1	18 18	0 47	23 43	0 15	1 42	1 23	24 45	6 25	9 10	9 32	13 6	6 43	7 6
W29	17 51	3 49	3 18	12 51	0 23	22 10	0 17	2 49	2 52	17 55	1 1	18 17	0 47	23 43	0 15	1 41	1 23	24 46	6 25	9 7	9 31	13 7	6 45	7 6
T 30	17 34	0s14	2 24	12 11	0 10	22 1	0 19	2 53	2 53	17 57	1 1	18 15	0 47	23 43	0 15	1 40	1 23	24 46	6 25	9 5	9 30	13 8	6 46	7 6
F 31	17s18	4s11	1s24	11s31	0n 4	21s51	0s22	2s56	2n54	17s59	1n 2	18s13	0s47	23n43	0n15	1s40	1s23	24n47	6n25	9s 3	9s29	13s10	6n47	7s 6

Julian Day Number = 2341242.5, Delta T = 15.01 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'29, Lahiri = 19°38'29Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

FEBRUARY 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 46 37	12♒45'04	19♎18	0♓55	24♑18	14♎24	24♏48	11♒15	28°R14	29♓ 3	6°R51	23°D15	24♎21	8♏34	24°R 3	S 1
S 2	8 50 33	13°45'51	1♏10	1°59	25°33	14°34	24°55	11°22	28♊13	29° 5	6♌50	23♎15	24°18	8°41	23♌58	S 2
M 3	8 54 30	14°46'37	12°58	2°56	26°48	14°44	25° 2	11°29	28°11	29° 7	6°48	23°R16	24°15	8°48	23°54	M 3
T 4	8 58 26	15°47'22	24°48	3°46	28° 3	14°53	25° 8	11°36	28°10	29° 8	6°47	23°15	24°12	8°54	23°49	T 4
W 5	9 2 23	16°48'07	6♐44	4°26	29°18	15° 1	25°15	11°43	28° 8	29°10	6°45	23°13	24° 9	9° 1	23°44	W 5
T 6	9 6 19	17°48'50	18°54	4°57	0♒33	15° 9	25°21	11°50	28° 7	29°12	6°44	23° 9	24° 6	9° 8	23°40	T 6
F 7	9 10 16	18°49'32	1♑19	5°18	1°48	15°16	25°27	11°58	28° 5	29°14	6°43	23° 2	24° 2	9°14	23°35	F 7
S 8	9 14 13	19°50'12	14° 5	5°29	3° 3	15°22	25°33	12° 5	28° 4	29°16	6°41	22°53	23°59	9°21	23°30	S 8
S 9	9 18 9	20°50'52	27°11	5°R30	4°18	15°28	25°38	12°12	28° 3	29°18	6°40	22°42	23°56	9°28	23°25	S 9
M10	9 22 6	21°51'30	10♒39	5°19	5°33	15°33	25°44	12°19	28° 2	29°19	6°39	22°31	23°53	9°34	23°21	M10
T 11	9 26 2	22°52'07	24°25	4°59	6°47	15°37	25°49	12°26	28° 0	29°21	6°37	22°21	23°50	9°41	23°16	T 11
W12	9 29 59	23°52'42	8♓25	4°29	8° 2	15°41	25°55	12°33	27°59	29°23	6°36	22°12	23°46	9°48	23°11	W12
T 13	9 33 55	24°53'15	22°37	3°49	9°17	15°44	26° 0	12°40	27°58	29°25	6°35	22° 6	23°43	9°54	23° 6	T 13
F 14	9 37 52	25°53'47	6♈53	3° 1	10°32	15°46	26° 4	12°47	27°57	29°27	6°33	22° 3	23°40	10° 1	23° 2	F 14
S 15	9 41 48	26°54'17	21°11	2° 7	11°47	15°48	26° 9	12°54	27°56	29°29	6°32	22°D 2	23°37	10° 8	22°57	S 15
S 16	9 45 45	27°54'45	5♉26	1° 7	13° 2	15°49	26°14	13° 1	27°55	29°31	6°31	22° 2	23°34	10°14	22°52	S 16
M17	9 49 42	28°55'11	19°37	0° 4	14°17	15°R49	26°18	13° 8	27°54	29°33	6°29	22° 3	23°31	10°21	22°47	M17
T 18	9 53 38	29°55'35	3♊42	28♒58	15°32	15°49	26°22	13°15	27°53	29°35	6°28	22°R 3	23°27	10°27	22°43	T 18
W19	9 57 35	0♓55'58	17°41	27°52	16°47	15°47	26°26	13°22	27°53	29°37	6°27	22° 2	23°24	10°34	22°38	W19
T 20	10 1 31	1°56'18	1♋31	26°47	18° 1	15°45	26°30	13°29	27°52	29°39	6°26	21°58	23°21	10°41	22°33	T 20
F 21	10 5 28	2°56'36	15°13	25°45	19°16	15°42	26°34	13°36	27°51	29°41	6°24	21°53	23°18	10°47	22°29	F 21
S 22	10 9 24	3°56'53	28°45	24°47	20°31	15°39	26°38	13°43	27°50	29°43	6°23	21°45	23°15	10°54	22°24	S 22
S 23	10 13 21	4°57'07	12♌ 5	23°54	21°46	15°35	26°41	13°50	27°50	29°45	6°22	21°37	23°12	11° 1	22°19	S 23
M24	10 17 17	5°57'19	25°11	23° 6	23° 1	15°29	26°44	13°57	27°49	29°48	6°21	21°29	23° 8	11° 7	22°15	M24
T 25	10 21 14	6°57'30	8♍ 3	22°25	24°15	15°24	26°47	14° 4	27°49	29°50	6°20	21°21	23° 5	11°14	22°10	T 25
W26	10 25 11	7°57'39	20°40	21°51	25°30	15°17	26°50	14°10	27°48	29°52	6°18	21°15	23° 2	11°21	22° 6	W26
T 27	10 29 7	8°57'46	3♎ 2	21°23	26°45	15° 9	26°53	14°17	27°48	29°54	6°17	21°12	22°59	11°27	22° 1	T 27
F 28	10 33 4	9♓57'51	15♎12	21♒ 3	28♒ 0	15♎ 1	26♏55	14♒24	27♊48	29♓56	6♌16	21♎10	22♎56	11♏34	21♌57	F 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
S 1	17s 1	7s54	0s21	10s53	0n18	21s41	0s24	2s59	2n55	18s 0	1n 2	18s11	0s47	23n43	0n15	1s39	1s23	24n47	6n25	9s 3	9s27	13s11	6n49	7s 6
S 2	16 43	11 14	0n42	10 16	0 33	21 30	0 26	3 2	2 56	18 2	1 2	18 9	0 47	23 43	0 15	1 38	1 23	24 48	6 25	9 3	9 26	13 12	6 50	7 6
M 3	16 26	14 7	1 43	9 41	0 49	21 18	0 29	3 5	2 57	18 3	1 2	18 7	0 47	23 43	0 15	1 37	1 23	24 48	6 25	9 3	9 25	13 14	6 52	7 7
T 4	16 8	16 25	2 40	9 8	1 5	21 6	0 31	3 8	2 58	18 5	1 2	18 5	0 47	23 43	0 15	1 37	1 23	24 48	6 25	9 3	9 24	13 15	6 53	7 7
W 5	15 49	18 1	3 30	8 39	1 21	20 52	0 33	3 10	2 59	18 6	1 2	18 3	0 47	23 43	0 15	1 36	1 23	24 49	6 25	9 2	9 23	13 16	6 55	7 6
T 6	15 31	18 50	4 12	8 12	1 37	20 39	0 36	3 12	3 0	18 7	1 2	18 1	0 47	23 43	0 15	1 35	1 23	24 49	6 25	9 1	9 22	13 17	6 56	7 6
F 7	15 12	18 45	4 43	7 49	1 54	20 24	0 38	3 14	3 1	18 9	1 2	17 59	0 47	23 43	0 15	1 34	1 23	24 50	6 25	8 58	9 20	13 19	6 58	7 6
S 8	14 53	17 45	5 0	7 30	2 10	20 10	0 40	3 16	3 2	18 10	1 3	17 57	0 47	23 43	0 15	1 34	1 23	24 50	6 25	8 55	9 19	13 20	6 59	7 6
S 9	14 34	15 48	5 3	7 15	2 26	19 54	0 42	3 17	3 3	18 11	1 3	17 55	0 47	23 43	0 15	1 33	1 23	24 50	6 25	8 51	9 18	13 21	7 1	7 6
M10	14 15	12 57	4 49	7 5	2 41	19 38	0 45	3 18	3 4	18 12	1 3	17 53	0 47	23 42	0 15	1 32	1 23	24 51	6 25	8 46	9 17	13 23	7 3	7 6
T 11	13 55	9 21	4 18	6 59	2 55	19 21	0 47	3 19	3 5	18 13	1 3	17 52	0 48	23 42	0 15	1 31	1 23	24 51	6 25	8 43	9 16	13 24	7 4	7 6
W12	13 35	5 9	3 31	6 58	3 8	19 4	0 49	3 19	3 6	18 15	1 3	17 50	0 48	23 42	0 15	1 31	1 23	24 51	6 25	8 39	9 14	13 25	7 6	7 6
T 13	13 15	0 38	2 31	7 2	3 19	18 46	0 51	3 20	3 7	18 16	1 3	17 48	0 48	23 42	0 15	1 30	1 23	24 52	6 25	8 37	9 13	13 27	7 7	7 6
F 14	12 54	3n58	1 20	7 10	3 28	18 28	0 53	3 20	3 8	18 17	1 3	17 46	0 48	23 42	0 15	1 29	1 23	24 52	6 25	8 36	9 12	13 28	7 9	7 6
S 15	12 34	8 21	0 5	7 23	3 36	18 9	0 55	3 20	3 8	18 18	1 3	17 44	0 48	23 42	0 15	1 28	1 23	24 53	6 25	8 36	9 11	13 29	7 11	7 5
S 16	12 13	12 14	1s11	7 39	3 41	17 50	0 57	3 19	3 9	18 19	1 4	17 42	0 48	23 42	0 15	1 27	1 23	24 53	6 25	8 36	9 10	13 30	7 13	7 5
M17	11 52	15 22	2 23	7 58	3 44	17 30	0 58	3 19	3 10	18 19	1 4	17 40	0 48	23 42	0 15	1 27	1 23	24 53	6 25	8 36	9 9	13 32	7 14	7 5
T 18	11 31	17 34	3 25	8 20	3 45	17 10	1 0	3 18	3 11	18 20	1 4	17 38	0 48	23 42	0 15	1 26	1 23	24 54	6 25	8 36	9 7	13 33	7 16	7 5
W19	11 10	18 41	4 14	8 44	3 43	16 49	1 2	3 16	3 12	18 21	1 4	17 36	0 48	23 42	0 15	1 25	1 23	24 54	6 25	8 36	9 6	13 34	7 18	7 4
T 20	10 48	18 40	4 48	9 10	3 39	16 28	1 4	3 15	3 12	18 22	1 4	17 34	0 48	23 42	0 15	1 24	1 23	24 54	6 25	8 34	9 5	13 35	7 19	7 4
F 21	10 26	17 33	5 5	9 36	3 34	16 6	1 5	3 13	3 13	18 23	1 4	17 32	0 48	23 42	0 15	1 23	1 23	24 55	6 25	8 32	9 4	13 37	7 21	7 4
S 22	10 5	15 28	5 5	10 2	3 26	15 44	1 7	3 11	3 14	18 23	1 4	17 30	0 49	23 42	0 15	1 22	1 23	24 55	6 25	8 29	9 3	13 38	7 23	7 4
S 23	9 43	12 35	4 48	10 28	3 17	15 21	1 8	3 9	3 14	18 24	1 4	17 29	0 49	23 42	0 15	1 22	1 23	24 55	6 25	8 26	9 2	13 39	7 25	7 3
M24	9 20	9 7	4 17	10 54	3 7	14 58	1 10	3 6	3 15	18 25	1 5	17 27	0 49	23 42	0 15	1 21	1 23	24 55	6 25	8 23	9 0	13 40	7 26	7 3
T 25	8 58	5 17	3 32	11 18	2 55	14 34	1 11	3 4	3 16	18 25	1 5	17 25	0 49	23 42	0 15	1 20	1 23	24 56	6 25	8 20	8 59	13 42	7 28	7 3
W26	8 36	1 17	2 38	11 41	2 43	14 11	1 12	3 1	3 16	18 26	1 5	17 23	0 49	23 42	0 15	1 19	1 23	24 56	6 25	8 18	8 58	13 43	7 30	7 2
T 27	8 13	2s42	1 37	12 2	2 30	13 46	1 14	2 57	3 17	18 26	1 5	17 21	0 49	23 42	0 15	1 18	1 23	24 56	6 25	8 17	8 57	13 44	7 32	7 2
F 28	7s51	6s29	0s32	12s21	2n16	13s22	1s15	2s54	3n17	18s27	1n 5	17s19	0s49	23n42	0n15	1s17	1s23	24n57	6n25	8s16	8s56	13s45	7n34	7s 1

Julian Day Number = 2341273.5, Delta T = 14.98 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'33, Lahiri = 19°38'33Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

MARCH 1698 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 37 0	10♓57'54	27♎10	20°R50	29♒15	14°R52	26♏57	14♒31	27°R47	29♓58	6°R15	21°D10	22♎52	11♏41	21°R53	S 1
S 2	10 40 57	11°57'56	9♏ 2	20♒43	0♓29	14♎43	27° 0	14°37	27♊47	0♈ 0	6♌14	21♎11	22°49	11°47	21♌48	S 2
M 3	10 44 53	12°57'56	20°50	20°D42	1°44	14°32	27° 1	14°44	27°47	0° 3	6°13	21°13	22°46	11°54	21°44	M 3
T 4	10 48 50	13°57'55	2♐40	20°48	2°59	14°21	27° 3	14°51	27°47	0° 5	6°12	21°14	22°43	12° 1	21°40	T 4
W 5	10 52 46	14°57'52	14°36	21° 0	4°14	14° 9	27° 5	14°57	27°47	0° 7	6°11	21°R15	22°40	12° 7	21°36	W 5
T 6	10 56 43	15°57'47	26°45	21°18	5°28	13°56	27° 6	15° 4	27°D47	0° 9	6°10	21°14	22°37	12°14	21°31	T 6
F 7	11 0 40	16°57'40	9♑10	21°40	6°43	13°42	27° 7	15°10	27°47	0°11	6° 9	21°12	22°33	12°21	21°27	F 7
S 8	11 4 36	17°57'32	21°56	22° 8	7°58	13°28	27° 8	15°17	27°47	0°14	6° 8	21° 9	22°30	12°27	21°23	S 8
S 9	11 8 33	18°57'23	5♒ 5	22°40	9°12	13°13	27° 9	15°23	27°47	0°16	6° 7	21° 4	22°27	12°34	21°20	S 9
M10	11 12 29	19°57'11	18°40	23°17	10°27	12°57	27°10	15°29	27°47	0°18	6° 6	20°59	22°24	12°41	21°16	M10
T 11	11 16 26	20°56'57	2♓38	23°57	11°42	12°41	27°10	15°36	27°48	0°20	6° 5	20°54	22°21	12°47	21°12	T 11
W12	11 20 22	21°56'42	16°57	24°41	12°56	12°24	27°10	15°42	27°48	0°23	6° 4	20°50	22°17	12°54	21° 8	W12
T 13	11 24 19	22°56'24	1♈31	25°29	14°11	12° 6	27°R10	15°48	27°48	0°25	6° 3	20°48	22°14	13° 0	21° 5	T 13
F 14	11 28 15	23°56'05	16°14	26°21	15°26	11°48	27°10	15°54	27°49	0°27	6° 2	20°D46	22°11	13° 7	21° 1	F 14
S 15	11 32 12	24°55'43	0♉58	27°15	16°40	11°29	27°10	16° 0	27°49	0°29	6° 1	20°47	22° 8	13°14	20°57	S 15
S 16	11 36 8	25°55'19	15°38	28°12	17°55	11°10	27° 9	16° 7	27°50	0°32	6° 0	20°48	22° 5	13°20	20°54	S 16
M17	11 40 5	26°54'53	0♊ 8	29°13	19°10	10°50	27° 9	16°13	27°50	0°34	6° 0	20°49	22° 2	13°27	20°51	M17
T 18	11 44 2	27°54'25	14°24	0♓15	20°24	10°30	27° 8	16°19	27°51	0°36	5°59	20°50	21°58	13°34	20°47	T 18
W19	11 47 58	28°53'54	28°24	1°20	21°39	10° 9	27° 7	16°24	27°52	0°38	5°58	20°R51	21°55	13°40	20°44	W19
T 20	11 51 55	29°53'21	12♋ 9	2°28	22°53	9°47	27° 6	16°30	27°52	0°41	5°57	20°50	21°52	13°47	20°41	T 20
F 21	11 55 51	0♈52'46	25°37	3°38	24° 8	9°26	27° 4	16°36	27°53	0°43	5°57	20°49	21°49	13°54	20°38	F 21
S 22	11 59 48	1°52'08	8♌49	4°50	25°22	9° 4	27° 2	16°42	27°54	0°45	5°56	20°47	21°46	14° 0	20°35	S 22
S 23	12 3 44	2°51'28	21°47	6° 4	26°37	8°42	27° 1	16°48	27°55	0°48	5°55	20°44	21°43	14° 7	20°32	S 23
M24	12 7 41	3°50'45	4♍31	7°20	27°51	8°19	26°59	16°53	27°56	0°50	5°55	20°42	21°39	14°14	20°30	M24
T 25	12 11 37	4°50'01	17° 2	8°38	29° 6	7°56	26°56	16°59	27°57	0°52	5°54	20°39	21°36	14°20	20°27	T 25
W26	12 15 34	5°49'14	29°22	9°57	0♈20	7°33	26°54	17° 5	27°58	0°54	5°53	20°38	21°33	14°27	20°25	W26
T 27	12 19 31	6°48'25	11♎31	11°19	1°35	7°10	26°52	17°10	27°59	0°57	5°53	20°37	21°30	14°34	20°22	T 27
F 28	12 23 27	7°47'34	23°32	12°42	2°49	6°47	26°49	17°15	28° 0	0°59	5°52	20°D36	21°27	14°40	20°20	F 28
S 29	12 27 24	8°46'41	5♏26	14° 7	4° 4	6°24	26°46	17°21	28° 2	1° 1	5°52	20°37	21°23	14°47	20°18	S 29
S 30	12 31 20	9°45'47	17°15	15°33	5°18	6° 1	26°43	17°26	28° 3	1° 3	5°51	20°38	21°20	14°54	20°15	S 30
M31	12 35 17	10♈44'50	29♏ 4	17♓ 2	6♈32	5♎38	26♏40	17♒31	28♊ 4	1♈ 6	5♌51	20♎39	21♎17	15♏ 0	20♌13	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		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	7s28	9s58	0n33	12s38	2n 2	12s57	1s16	2s50	3n17	18s27	1n 5	17s17	0s49	23n42	0n15	1s16	1s23	24n57	6n25	8s16	8s54	13s47	7n35	7s 1	S 1
S 2	7 5	13 1	1 36	12 54	1 48	12 31	1 17	2 46	3 18	18 27	1 5	17 15	0 49	23 42	0 15	1 16	1 23	24 57	6 25	8 17	8 53	13 48	7 37	7 1	S 2
M 3	6 42	15 30	2 35	13 7	1 34	12 6	1 18	2 42	3 18	18 28	1 5	17 14	0 49	23 42	0 15	1 15	1 23	24 57	6 25	8 17	8 52	13 49	7 39	7 0	M 3
T 4	6 19	17 20	3 27	13 18	1 21	11 40	1 19	2 37	3 18	18 28	1 6	17 12	0 50	23 42	0 15	1 14	1 23	24 58	6 25	8 18	8 51	13 50	7 41	7 0	T 4
W 5	5 56	18 26	4 11	13 28	1 7	11 13	1 20	2 32	3 19	18 28	1 6	17 10	0 50	23 42	0 15	1 13	1 23	24 58	6 25	8 18	8 50	13 52	7 42	6 59	W 5
T 6	5 33	18 42	4 45	13 35	0 53	10 47	1 21	2 27	3 19	18 28	1 6	17 8	0 50	23 42	0 15	1 12	1 23	24 58	6 25	8 18	8 49	13 53	7 44	6 59	T 6
F 7	5 9	18 4	5 6	13 40	0 40	10 20	1 22	2 22	3 19	18 29	1 6	17 6	0 50	23 42	0 15	1 11	1 23	24 58	6 25	8 17	8 47	13 54	7 46	6 58	F 7
S 8	4 46	16 33	5 13	13 44	0 27	9 53	1 23	2 16	3 19	18 29	1 6	17 5	0 50	23 42	0 15	1 10	1 23	24 59	6 25	8 16	8 46	13 55	7 48	6 58	S 8
S 9	4 23	14 7	5 3	13 45	0 15	9 25	1 23	2 10	3 19	18 29	1 6	17 3	0 50	23 42	0 15	1 9	1 23	24 59	6 25	8 14	8 45	13 57	7 49	6 57	S 9
M10	3 59	10 52	4 37	13 44	0 3	8 57	1 24	2 4	3 19	18 29	1 6	17 1	0 50	23 42	0 15	1 8	1 23	24 59	6 25	8 12	8 44	13 58	7 51	6 57	M10
T 11	3 36	6 55	3 54	13 42	0s 9	8 29	1 25	1 58	3 19	18 29	1 6	16 59	0 50	23 42	0 15	1 8	1 23	24 59	6 25	8 10	8 43	13 59	7 53	6 56	T 11
W12	3 12	2 28	2 55	13 38	0 20	8 1	1 25	1 52	3 18	18 29	1 7	16 57	0 50	23 42	0 15	1 7	1 23	24 59	6 25	8 9	8 41	14 0	7 54	6 55	W12
T 13	2 48	2n11	1 44	13 32	0 31	7 33	1 25	1 45	3 18	18 29	1 7	16 56	0 51	23 42	0 15	1 6	1 23	24 59	6 25	8 8	8 40	14 1	7 56	6 55	T 13
F 14	2 25	6 47	0 25	13 24	0 42	7 4	1 26	1 39	3 18	18 28	1 7	16 54	0 51	23 42	0 15	1 5	1 23	25 0	6 25	8 7	8 39	14 3	7 58	6 54	F 14
S 15	2 1	10 57	0s56	13 15	0 51	6 35	1 26	1 32	3 17	18 28	1 7	16 52	0 51	23 42	0 15	1 4	1 23	25 0	6 24	8 7	8 38	14 4	7 59	6 54	S 15
S 16	1 37	14 26	2 13	13 4	1 1	6 7	1 26	1 25	3 17	18 28	1 7	16 50	0 51	23 42	0 15	1 3	1 23	25 0	6 24	8 8	8 37	14 5	8 1	6 53	S 16
M17	1 14	16 57	3 20	12 51	1 10	5 37	1 27	1 17	3 16	18 28	1 7	16 49	0 51	23 42	0 15	1 2	1 23	25 0	6 24	8 8	8 36	14 6	8 3	6 52	M17
T 18	0 50	18 21	4 14	12 37	1 18	5 8	1 27	1 10	3 15	18 27	1 7	16 47	0 51	23 42	0 15	1 1	1 23	25 0	6 24	8 9	8 34	14 7	8 4	6 52	T 18
W19	0 26	18 36	4 52	12 21	1 26	4 39	1 27	1 3	3 14	18 27	1 7	16 45	0 51	23 42	0 15	1 0	1 23	25 0	6 24	8 9	8 33	14 9	8 6	6 51	W19
T 20	0 3	17 45	5 12	12 4	1 34	4 9	1 27	0 55	3 14	18 27	1 8	16 44	0 51	23 42	0 15	0 59	1 23	25 0	6 24	8 9	8 32	14 10	8 8	6 50	T 20
F 21	0n21	15 54	5 14	11 45	1 41	3 40	1 27	0 47	3 13	18 26	1 8	16 42	0 51	23 42	0 15	0 59	1 23	25 1	6 24	8 8	8 31	14 11	8 9	6 50	F 21
S 22	0 45	13 15	5 0	11 25	1 47	3 10	1 26	0 40	3 12	18 26	1 8	16 41	0 52	23 42	0 15	0 58	1 23	25 1	6 24	8 7	8 30	14 12	8 11	6 49	S 22
S 23	1 8	10 0	4 31	11 3	1 53	2 40	1 26	0 32	3 10	18 25	1 8	16 39	0 52	23 42	0 15	0 57	1 23	25 1	6 24	8 7	8 28	14 13	8 12	6 48	S 23
M24	1 32	6 20	3 48	10 40	1 59	2 10	1 26	0 24	3 9	18 25	1 8	16 37	0 52	23 42	0 15	0 56	1 23	25 1	6 24	8 6	8 27	14 15	8 14	6 48	M24
T 25	1 55	2 26	2 55	10 16	2 4	1 40	1 26	0 17	3 8	18 24	1 8	16 36	0 52	23 42	0 15	0 55	1 23	25 1	6 24	8 5	8 26	14 16	8 15	6 47	T 25
W26	2 19	1s30	1 55	9 50	2 9	1 10	1 25	0 9	3 7	18 23	1 8	16 34	0 52	23 42	0 15	0 54	1 23	25 1	6 24	8 4	8 25	14 17	8 17	6 46	W26
T 27	2 42	5 20	0 50	9 23	2 13	0 40	1 25	0 1	3 5	18 23	1 8	16 33	0 52	23 42	0 15	0 53	1 23	25 1	6 24	8 4	8 24	14 18	8 18	6 45	T 27
F 28	3 6	8 54	0n16	8 54	2 16	0 10	1 24	0n 7	3 4	18 22	1 8	16 31	0 52	23 42	0 15	0 52	1 23	25 1	6 24	8 4	8 22	14 19	8 20	6 45	F 28
S 29	3 29	12 4	1 21	8 24	2 20	0n20	1 24	0 14	3 2	18 21	1 8	16 30	0 53	23 42	0 15	0 51	1 23	25 1	6 23	8 4	8 21	14 20	8 21	6 44	S 29
S 30	3 52	14 44	2 23	7 53	2 22	0 50	1 23	0 22	3 0	18 20	1 9	16 28	0 53	23 42	0 15	0 51	1 23	25 1	6 23	8 4	8 20	14 22	8 22	6 43	S 30
M31	4n16	16s46	3n18	7s21	2s25	1n21	1s22	0n30	2n59	18s20	1n 9	16s27	0s53	23n42	0n15	0s50	1s23	25n 1	6n23	8s 4	8s19	14s23	8n24	6s42	M31

Julian Day Number = 2341301.5, Delta T = 14.95 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'37, Lahiri = 19°38'37Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

APRIL 1698 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 39 13	11♈43'52	10♐55	18♓31	7♈47	5°R15	26°R36	17♒37	28♊ 5	1♈ 8	5°R50	20♎40	21♎14	15♏ 7	20°R11	T 1
W 2	12 43 10	12°42'51	22°52	20° 3	9° 1	4♎52	26♏33	17°42	28° 7	1°10	5♌50	20°41	21°11	15°14	20♌10	W 2
T 3	12 47 6	13°41'49	4♑59	21°36	10°16	4°29	26°29	17°47	28° 8	1°12	5°49	20°41	21° 8	15°20	20° 8	T 3
F 4	12 51 3	14°40'46	17°22	23°10	11°30	4° 6	26°25	17°52	28°10	1°15	5°49	20°R41	21° 4	15°27	20° 6	F 4
S 5	12 55 0	15°39'40	0♒ 4	24°46	12°44	3°44	26°21	17°57	28°11	1°17	5°49	20°41	21° 1	15°34	20° 5	S 5
S 6	12 58 56	16°38'33	13° 9	26°24	13°59	3°22	26°17	18° 1	28°13	1°19	5°48	20°41	20°58	15°40	20° 3	S 6
M 7	13 2 53	17°37'24	26°40	28° 3	15°13	3° 1	26°12	18° 6	28°15	1°21	5°48	20°40	20°55	15°47	20° 2	M 7
T 8	13 6 49	18°36'13	10♓38	29°44	16°27	2°39	26° 8	18°11	28°16	1°23	5°48	20°40	20°52	15°54	20° 1	T 8
W 9	13 10 46	19°35'00	25° 1	1♈26	17°41	2°18	26° 3	18°16	28°18	1°26	5°48	20°40	20°48	16° 0	20° 0	W 9
T 10	13 14 42	20°33'45	9♈44	3°10	18°56	1°58	25°58	18°20	28°20	1°28	5°47	20°D40	20°45	16° 7	19°59	T 10
F 11	13 18 39	21°32'29	24°43	4°56	20°10	1°38	25°53	18°25	28°22	1°30	5°47	20°R40	20°42	16°13	19°58	F 11
S 12	13 22 35	22°31'10	9♉48	6°43	21°24	1°19	25°48	18°29	28°24	1°32	5°47	20°40	20°39	16°20	19°57	S 12
S 13	13 26 32	23°29'50	24°51	8°31	22°38	1° 0	25°42	18°33	28°26	1°34	5°47	20°39	20°36	16°27	19°56	S 13
M14	13 30 28	24°28'27	9♊43	10°21	23°53	0°42	25°37	18°38	28°28	1°36	5°47	20°39	20°33	16°33	19°56	M14
T 15	13 34 25	25°27'03	24°17	12°13	25° 7	0°24	25°31	18°42	28°30	1°39	5°47	20°39	20°29	16°40	19°55	T 15
W16	13 38 22	26°25'36	8♋30	14° 7	26°21	0° 7	25°26	18°46	28°32	1°41	5°47	20°38	20°26	16°47	19°55	W16
T 17	13 42 18	27°24'07	22°19	16° 2	27°35	29♍51	25°20	18°50	28°34	1°43	5°D47	20°D38	20°23	16°53	19°55	T 17
F 18	13 46 15	28°22'35	5♌45	17°58	28°49	29°36	25°14	18°54	28°36	1°45	5°47	20°38	20°20	17° 0	19°D55	F 18
S 19	13 50 11	29°21'02	18°49	19°56	0♉ 3	29°21	25° 8	18°58	28°38	1°47	5°47	20°38	20°17	17° 7	19°55	S 19
S 20	13 54 8	0♉19'26	1♍34	21°56	1°18	29° 7	25° 2	19° 1	28°40	1°49	5°47	20°39	20°14	17°13	19°55	S 20
M21	13 58 4	1°17'48	14° 3	23°57	2°32	28°53	24°55	19° 5	28°43	1°51	5°47	20°40	20°10	17°20	19°55	M21
T 22	14 2 1	2°16'08	26°19	26° 0	3°46	28°41	24°49	19° 9	28°45	1°53	5°47	20°41	20° 7	17°27	19°56	T 22
W23	14 5 57	3°14'26	8♎24	28° 4	5° 0	28°29	24°42	19°12	28°47	1°55	5°47	20°42	20° 4	17°33	19°56	W23
T 24	14 9 54	4°12'43	20°22	0♉ 9	6°14	28°18	24°36	19°16	28°50	1°57	5°47	20°R42	20° 1	17°40	19°57	T 24
F 25	14 13 51	5°10'57	2♏15	2°16	7°28	28° 8	24°29	19°19	28°52	1°59	5°47	20°42	19°58	17°47	19°57	F 25
S 26	14 17 47	6° 9'09	14° 5	4°23	8°42	27°58	24°22	19°22	28°54	2° 1	5°48	20°41	19°54	17°53	19°58	S 26
S 27	14 21 44	7° 7'20	25°54	6°32	9°56	27°49	24°15	19°26	28°57	2° 3	5°48	20°39	19°51	18° 0	19°59	S 27
M28	14 25 40	8° 5'29	7♐44	8°41	11°10	27°41	24° 8	19°29	28°59	2° 5	5°48	20°36	19°48	18° 7	20° 0	M28
T 29	14 29 37	9° 3'37	19°38	10°51	12°24	27°34	24° 1	19°32	29° 2	2° 7	5°48	20°34	19°45	18°13	20° 1	T 29
W30	14 33 33	10♉ 1'43	1♑39	13♉ 1	13♉38	27♍28	23♏54	19♒35	29♊ 5	2♈ 9	5♌49	20♎31	19♎42	18♏20	20♌ 2	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	4n39	18s 5	4n 5	6s47	2s26	1n51	1s21	0n37	2n57	18s19	1n 9	16s25	0s53	23n42	0n15	0s49	1s23	25n 1	6n23	8s 5	8s18	14s24	8n25	6s42
W 2	5 2	18 36	4 41	6 12	2 27	2 21	1 21	0 44	2 55	18 18	1 9	16 24	0 53	23 42	0 15	0 48	1 23	25 1	6 23	8 5	8 16	14 25	8 26	6 41
T 3	5 25	18 17	5 6	5 36	2 28	2 51	1 20	0 52	2 53	18 17	1 9	16 22	0 53	23 42	0 15	0 47	1 23	25 1	6 23	8 5	8 15	14 26	8 28	6 40
F 4	5 48	17 6	5 17	4 59	2 28	3 21	1 19	0 59	2 51	18 16	1 9	16 21	0 53	23 42	0 15	0 46	1 23	25 1	6 23	8 5	8 14	14 27	8 29	6 39
S 5	6 10	15 3	5 14	4 21	2 28	3 51	1 18	1 6	2 49	18 15	1 9	16 20	0 53	23 42	0 15	0 45	1 23	25 1	6 23	8 5	8 13	14 28	8 30	6 39
S 6	6 33	12 12	4 54	3 41	2 27	4 21	1 17	1 12	2 47	18 14	1 9	16 18	0 54	23 42	0 15	0 44	1 23	25 1	6 23	8 5	8 12	14 30	8 31	6 38
M 7	6 56	8 36	4 17	3 0	2 26	4 50	1 16	1 19	2 44	18 13	1 9	16 17	0 54	23 42	0 15	0 44	1 23	25 1	6 23	8 5	8 11	14 31	8 32	6 37
T 8	7 18	4 26	3 25	2 19	2 24	5 20	1 14	1 25	2 42	18 12	1 9	16 16	0 54	23 43	0 15	0 43	1 23	25 1	6 23	8 5	8 9	14 32	8 34	6 36
W 9	7 40	0n 7	2 18	1 36	2 22	5 50	1 13	1 31	2 40	18 10	1 9	16 14	0 54	23 43	0 15	0 42	1 23	25 1	6 22	8 5	8 8	14 33	8 35	6 35
T 10	8 3	4 47	1 0	0 52	2 19	6 19	1 12	1 37	2 37	18 9	1 9	16 13	0 54	23 43	0 15	0 41	1 23	25 1	6 22	8 5	8 7	14 34	8 36	6 34
F 11	8 25	9 14	0s23	0 7	2 16	6 48	1 11	1 43	2 35	18 8	1 9	16 12	0 54	23 43	0 15	0 40	1 23	25 1	6 22	8 5	8 6	14 35	8 37	6 34
S 12	8 47	13 7	1 44	0n39	2 12	7 17	1 9	1 48	2 32	18 7	1 9	16 10	0 55	23 43	0 15	0 39	1 23	25 1	6 22	8 5	8 5	14 36	8 38	6 33
S 13	9 8	16 7	2 59	1 26	2 8	7 46	1 8	1 54	2 30	18 5	1 10	16 9	0 55	23 43	0 15	0 38	1 23	25 1	6 22	8 5	8 3	14 38	8 39	6 32
M14	9 30	17 59	4 0	2 14	2 3	8 15	1 6	1 58	2 27	18 4	1 10	16 8	0 55	23 43	0 15	0 38	1 23	25 1	6 22	8 5	8 2	14 39	8 40	6 31
T 15	9 51	18 37	4 45	3 2	1 57	8 44	1 5	2 3	2 25	18 3	1 10	16 7	0 55	23 43	0 15	0 37	1 23	25 1	6 22	8 4	8 1	14 40	8 41	6 30
W16	10 13	18 2	5 11	3 52	1 52	9 12	1 3	2 7	2 22	18 1	1 10	16 6	0 55	23 43	0 15	0 36	1 23	25 1	6 22	8 4	8 0	14 41	8 42	6 29
T 17	10 34	16 24	5 18	4 42	1 45	9 40	1 1	2 12	2 20	18 0	1 10	16 5	0 55	23 43	0 15	0 35	1 23	25 1	6 22	8 4	7 59	14 42	8 43	6 29
F 18	10 55	13 54	5 7	5 33	1 38	10 8	1 0	2 15	2 17	17 58	1 10	16 4	0 55	23 43	0 15	0 34	1 23	25 1	6 22	8 4	7 57	14 43	8 43	6 28
S 19	11 16	10 46	4 40	6 24	1 31	10 36	0 58	2 19	2 14	17 57	1 10	16 3	0 56	23 43	0 15	0 34	1 23	25 1	6 21	8 4	7 56	14 44	8 44	6 27
S 20	11 36	7 11	4 0	7 16	1 23	11 4	0 56	2 22	2 12	17 55	1 10	16 2	0 56	23 43	0 15	0 33	1 23	25 0	6 21	8 5	7 55	14 45	8 45	6 26
M21	11 57	3 22	3 10	8 9	1 15	11 31	0 54	2 25	2 9	17 54	1 10	16 1	0 56	23 43	0 15	0 32	1 23	25 0	6 21	8 5	7 54	14 46	8 46	6 25
T 22	12 17	0s32	2 11	9 2	1 6	11 58	0 53	2 27	2 6	17 52	1 10	16 0	0 56	23 43	0 15	0 31	1 23	25 0	6 21	8 5	7 53	14 48	8 46	6 24
W23	12 37	4 22	1 8	9 55	0 57	12 25	0 51	2 30	2 4	17 51	1 10	15 59	0 56	23 43	0 15	0 30	1 23	25 0	6 21	8 6	7 51	14 49	8 47	6 23
T 24	12 57	8 0	0 2	10 48	0 48	12 51	0 49	2 32	2 1	17 49	1 10	15 58	0 56	23 43	0 15	0 30	1 23	25 0	6 21	8 6	7 50	14 50	8 48	6 23
F 25	13 16	11 17	1n 4	11 41	0 38	13 17	0 47	2 33	1 58	17 47	1 10	15 57	0 57	23 43	0 15	0 29	1 23	25 0	6 21	8 6	7 49	14 51	8 48	6 22
S 26	13 36	14 5	2 6	12 34	0 28	13 43	0 45	2 34	1 55	17 46	1 10	15 56	0 57	23 43	0 15	0 28	1 23	25 0	6 21	8 5	7 48	14 52	8 49	6 21
S 27	13 55	16 18	3 3	13 26	0 18	14 8	0 43	2 36	1 53	17 44	1 10	15 55	0 57	23 43	0 15	0 27	1 23	25 0	6 21	8 5	7 47	14 53	8 50	6 20
M28	14 14	17 49	3 52	14 18	0 7	14 33	0 41	2 36	1 50	17 42	1 10	15 54	0 57	23 43	0 15	0 27	1 23	24 59	6 21	8 4	7 45	14 54	8 50	6 19
T 29	14 32	18 34	4 31	15 9	0n 3	14 58	0 39	2 37	1 47	17 41	1 10	15 53	0 57	23 43	0 15	0 26	1 23	24 59	6 20	8 3	7 44	14 55	8 51	6 18
W30	14n51	18s29	4n59	15n59	0n14	15n23	0s36	2n37	1n45	17s39	1n10	15s53	0s57	23n43	0n15	0s25	1s23	24n59	6n20	8s 1	7s43	14s56	8n51	6s17

Julian Day Number = 2341332.5, Delta T = 14.92 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'41, Lahiri = 19°38'41Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

MAY 1698 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 37 30	10♉59'48	13♊49	15♉10	14♉52	27°R22	23°R47	19♒38	29♊ 7	2♈11	5♌49	20°R28	19♎39	18♏27	20♌ 4	T 1
F 2	14 41 26	11°57'51	26°12	17°20	16° 6	27♍18	23♏39	19°40	29°10	2°12	5°50	20♎26	19°35	18°33	20° 5	F 2
S 3	14 45 23	12°55'53	8♒51	19°29	17°20	27°14	23°32	19°43	29°13	2°14	5°50	20°D26	19°32	18°40	20° 7	S 3
S 4	14 49 20	13°53'53	21°51	21°37	18°34	27°10	23°25	19°46	29°15	2°16	5°50	20°26	19°29	18°47	20° 8	S 4
M 5	14 53 16	14°51'52	5♓14	23°44	19°47	27° 8	23°17	19°48	29°18	2°18	5°51	20°27	19°26	18°53	20°10	M 5
T 6	14 57 13	15°49'50	19° 3	25°50	21° 1	27° 6	23°10	19°50	29°21	2°20	5°51	20°28	19°23	19° 0	20°12	T 6
W 7	15 1 9	16°47'46	3♈18	27°53	22°15	27° 5	23° 2	19°53	29°24	2°21	5°52	20°29	19°20	19° 7	20°14	W 7
T 8	15 5 6	17°45'41	17°57	29°55	23°29	27°D 5	22°55	19°55	29°27	2°23	5°52	20°R30	19°16	19°13	20°16	T 8
F 9	15 9 2	18°43'35	2♉56	1♊55	24°43	27° 6	22°47	19°57	29°30	2°25	5°53	20°30	19°13	19°20	20°18	F 9
S 10	15 12 59	19°41'28	18° 6	3°52	25°57	27° 7	22°39	19°59	29°33	2°27	5°53	20°28	19°10	19°27	20°21	S 10
S 11	15 16 55	20°39'19	3♊20	5°47	27°11	27°10	22°32	20° 1	29°36	2°28	5°54	20°25	19° 7	19°33	20°23	S 11
M12	15 20 52	21°37'08	18°27	7°39	28°24	27°13	22°24	20° 3	29°39	2°30	5°55	20°21	19° 4	19°40	20°26	M12
T 13	15 24 49	22°34'56	3♋17	9°28	29°38	27°16	22°16	20° 5	29°42	2°31	5°55	20°16	19° 0	19°47	20°28	T 13
W14	15 28 45	23°32'42	17°43	11°14	0♊52	27°21	22° 9	20° 6	29°45	2°33	5°56	20°12	18°57	19°53	20°31	W14
T 15	15 32 42	24°30'27	1♌42	12°57	2° 6	27°26	22° 1	20° 8	29°48	2°35	5°57	20° 9	18°54	20° 0	20°34	T 15
F 16	15 36 38	25°28'10	15°13	14°37	3°20	27°32	21°53	20° 9	29°51	2°36	5°58	20° 7	18°51	20° 7	20°37	F 16
S 17	15 40 35	26°25'51	28°18	16°14	4°33	27°38	21°46	20°11	29°54	2°38	5°58	20°D 6	18°48	20°13	20°40	S 17
S 18	15 44 31	27°23'31	10♍59	17°48	5°47	27°45	21°38	20°12	29°57	2°39	5°59	20° 7	18°45	20°20	20°43	S 18
M19	15 48 28	28°21'09	23°21	19°18	7° 1	27°53	21°31	20°13	0♋ 0	2°41	6° 0	20° 8	18°41	20°27	20°46	M19
T 20	15 52 24	29°18'46	5♎29	20°45	8°15	28° 2	21°23	20°14	0° 4	2°42	6° 1	20°10	18°38	20°33	20°50	T 20
W21	15 56 21	0♊16'21	17°26	22° 9	9°28	28°11	21°16	20°15	0° 7	2°44	6° 2	20°R11	18°35	20°40	20°53	W21
T 22	16 0 18	1°13'55	29°18	23°29	10°42	28°21	21° 8	20°16	0°10	2°45	6° 2	20°10	18°32	20°47	20°57	T 22
F 23	16 4 14	2°11'27	11♏ 6	24°46	11°56	28°31	21° 1	20°17	0°13	2°46	6° 3	20° 8	18°29	20°53	21° 1	F 23
S 24	16 8 11	3° 8'58	22°55	25°59	13° 9	28°42	20°54	20°17	0°17	2°48	6° 4	20° 4	18°25	21° 0	21° 4	S 24
S 25	16 12 7	4° 6'29	4♐46	27° 9	14°23	28°54	20°46	20°18	0°20	2°49	6° 5	19°58	18°22	21° 7	21° 8	S 25
M26	16 16 4	5° 3'58	16°41	28°15	15°37	29° 6	20°39	20°18	0°23	2°50	6° 6	19°51	18°19	21°13	21°12	M26
T 27	16 20 0	6° 1'26	28°42	29°18	16°50	29°19	20°32	20°19	0°27	2°52	6° 7	19°42	18°16	21°20	21°16	T 27
W28	16 23 57	6°58'53	10♑50	0♋17	18° 4	29°32	20°25	20°19	0°30	2°53	6° 8	19°34	18°13	21°27	21°20	W28
T 29	16 27 53	7°56'19	23° 8	1°12	19°17	29°46	20°18	20°19	0°33	2°54	6° 9	19°26	18°10	21°33	21°24	T 29
F 30	16 31 50	8°53'45	5♒38	2° 3	20°31	0♎ 0	20°11	20°R19	0°37	2°55	6°10	19°20	18° 6	21°40	21°29	F 30
S 31	16 35 47	9♊51'10	18♒21	2♋51	21♊45	0♎15	20♏ 4	20♒19	0♋40	2♈56	6♌11	19♎15	18♎ 3	21♏47	21♌33	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	15n 9	17s34	5n13	16n48	0n24	15n47	0s34	2n36	1n42	17s37	1n10	15s52	0s58	23n43	0n15	0s25	1s23	24n59	6n20	8s 0	7s42	14s57	8n51	6s17
F 2	15 27	15 48	5 14	17 36	0 35	16 10	0 32	2 36	1 39	17 35	1 10	15 51	0 58	23 43	0 15	0 24	1 23	24 59	6 20	8 0	7 41	14 58	8 52	6 16
S 3	15 45	13 15	4 59	18 21	0 45	16 33	0 30	2 35	1 37	17 34	1 10	15 50	0 58	23 43	0 15	0 23	1 23	24 58	6 20	7 59	7 39	14 59	8 52	6 15
S 4	16 2	10 0	4 29	19 5	0 55	16 56	0 28	2 34	1 34	17 32	1 10	15 50	0 58	23 43	0 15	0 22	1 24	24 58	6 20	8 0	7 38	15 1	8 52	6 14
M 5	16 19	6 8	3 44	19 47	1 5	17 18	0 25	2 33	1 32	17 30	1 10	15 49	0 58	23 43	0 15	0 22	1 24	24 58	6 20	8 0	7 37	15 2	8 53	6 13
T 6	16 36	1 49	2 45	20 27	1 15	17 40	0 23	2 31	1 29	17 28	1 9	15 49	0 58	23 43	0 15	0 21	1 24	24 58	6 20	8 0	7 36	15 3	8 53	6 12
W 7	16 53	2n44	1 33	21 5	1 24	18 2	0 21	2 29	1 26	17 26	1 9	15 48	0 59	23 43	0 15	0 20	1 24	24 58	6 20	8 1	7 35	15 4	8 53	6 11
T 8	17 9	7 16	0 14	21 40	1 32	18 23	0 18	2 27	1 24	17 25	1 9	15 48	0 59	23 43	0 15	0 20	1 24	24 57	6 20	8 1	7 33	15 5	8 53	6 11
F 9	17 25	11 27	1s 8	22 12	1 40	18 43	0 16	2 24	1 21	17 23	1 9	15 47	0 59	23 43	0 15	0 19	1 24	24 57	6 19	8 1	7 32	15 6	8 53	6 10
S 10	17 41	14 55	2 26	22 43	1 47	19 3	0 14	2 21	1 19	17 21	1 9	15 47	0 59	23 43	0 15	0 18	1 24	24 57	6 19	8 0	7 31	15 7	8 53	6 9
S 11	17 57	17 22	3 34	23 10	1 54	19 22	0 11	2 18	1 16	17 19	1 9	15 46	0 59	23 43	0 15	0 18	1 24	24 57	6 19	7 59	7 30	15 8	8 53	6 8
M12	18 12	18 34	4 26	23 35	2 0	19 41	0 9	2 15	1 14	17 17	1 9	15 46	0 59	23 43	0 15	0 17	1 24	24 56	6 19	7 58	7 28	15 9	8 53	6 7
T 13	18 27	18 27	4 59	23 57	2 5	20 0	0 7	2 11	1 12	17 15	1 9	15 45	1 0	23 43	0 15	0 17	1 24	24 56	6 19	7 56	7 27	15 10	8 53	6 6
W14	18 41	17 8	5 12	24 17	2 9	20 18	0 4	2 7	1 9	17 13	1 9	15 45	1 0	23 43	0 15	0 16	1 24	24 56	6 19	7 54	7 26	15 11	8 53	6 5
T 15	18 56	14 50	5 6	24 35	2 13	20 35	0 2	2 3	1 7	17 12	1 9	15 45	1 0	23 43	0 15	0 15	1 24	24 56	6 19	7 53	7 25	15 12	8 53	6 5
F 16	19 10	11 47	4 43	24 50	2 15	20 52	0n 1	1 58	1 4	17 10	1 9	15 44	1 0	23 43	0 15	0 15	1 24	24 55	6 19	7 52	7 24	15 13	8 53	6 4
S 17	19 23	8 14	4 6	25 2	2 17	21 8	0 3	1 54	1 2	17 8	1 9	15 44	1 0	23 43	0 15	0 14	1 24	24 55	6 19	7 52	7 22	15 14	8 53	6 3
S 18	19 36	4 25	3 18	25 13	2 18	21 24	0 6	1 49	1 0	17 6	1 8	15 44	1 0	23 43	0 15	0 14	1 24	24 55	6 19	7 52	7 21	15 15	8 53	6 2
M19	19 49	0 29	2 21	25 21	2 19	21 39	0 8	1 43	0 58	17 4	1 8	15 44	1 1	23 43	0 15	0 13	1 24	24 54	6 19	7 53	7 20	15 16	8 53	6 1
T 20	20 2	3s24	1 19	25 27	2 18	21 53	0 10	1 38	0 55	17 2	1 8	15 43	1 1	23 43	0 15	0 13	1 24	24 54	6 18	7 54	7 19	15 17	8 52	6 1
W21	20 14	7 5	0 15	25 31	2 17	22 7	0 13	1 32	0 53	17 0	1 8	15 43	1 1	23 43	0 15	0 12	1 24	24 54	6 18	7 54	7 18	15 18	8 52	6 0
T 22	20 26	10 28	0n49	25 33	2 14	22 20	0 15	1 26	0 51	16 59	1 8	15 43	1 1	23 43	0 15	0 12	1 24	24 53	6 18	7 54	7 16	15 19	8 52	5 59
F 23	20 38	13 25	1 51	25 34	2 11	22 33	0 18	1 20	0 49	16 57	1 8	15 43	1 1	23 43	0 15	0 11	1 24	24 53	6 18	7 53	7 15	15 20	8 51	5 58
S 24	20 49	15 49	2 48	25 32	2 7	22 45	0 20	1 14	0 47	16 55	1 8	15 43	1 2	23 43	0 15	0 11	1 24	24 53	6 18	7 51	7 14	15 21	8 51	5 57
S 25	21 0	17 33	3 38	25 29	2 3	22 56	0 22	1 7	0 45	16 53	1 8	15 43	1 2	23 43	0 15	0 10	1 24	24 53	6 18	7 49	7 13	15 22	8 50	5 57
M26	21 11	18 32	4 18	25 25	1 57	23 6	0 25	1 1	0 43	16 52	1 7	15 43	1 2	23 43	0 15	0 10	1 24	24 52	6 18	7 46	7 12	15 23	8 50	5 56
T 27	21 21	18 41	4 47	25 19	1 51	23 16	0 27	0 54	0 41	16 50	1 7	15 43	1 2	23 43	0 15	0 9	1 25	24 52	6 18	7 43	7 10	15 24	8 49	5 55
W28	21 31	17 59	5 4	25 12	1 43	23 26	0 29	0 47	0 39	16 48	1 7	15 43	1 2	23 43	0 15	0 9	1 25	24 52	6 18	7 40	7 9	15 25	8 49	5 54
T 29	21 40	16 27	5 7	25 3	1 35	23 34	0 32	0 39	0 37	16 46	1 7	15 43	1 2	23 43	0 15	0 8	1 25	24 51	6 18	7 37	7 8	15 26	8 48	5 53
F 30	21 49	14 7	4 55	24 54	1 26	23 42	0 34	0 32	0 35	16 45	1 7	15 43	1 3	23 43	0 15	0 8	1 25	24 51	6 18	7 35	7 7	15 27	8 48	5 53
S 31	21n58	11s 5	4n29	24n43	1n17	23n49	0n36	0n24	0n33	16s43	1n 7	15s44	1s 3	23n43	0n15	0s 8	1s25	24n50	6n18	7s33	7s 6	15s28	8n47	5s52

Julian Day Number = 2341362.5, Delta T = 14.89 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'45, Lahiri = 19°38'46Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

JUNE 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 39 43	10♊48'34	1♓20	3♋34	22♊58	0♎31	19°R57	20°R19	0♋44	2♈57	6♌12	19°R13	18♎ 0	21♏53	21♌38	S 1
M 2	16 43 40	11°45'57	14°38	4°13	24°12	0°47	19♏51	20♒19	0°47	2°59	6°14	19°D13	17°57	22° 0	21°42	M 2
T 3	16 47 36	12°43'20	28°18	4°48	25°25	1° 3	19°44	20°19	0°50	3° 0	6°15	19♎13	17°54	22° 7	21°47	T 3
W 4	16 51 33	13°40'42	12♈20	5°19	26°39	1°20	19°37	20°18	0°54	3° 1	6°16	19°R14	17°51	22°13	21°52	W 4
T 5	16 55 29	14°38'04	26°46	5°45	27°52	1°38	19°31	20°18	0°57	3° 2	6°17	19°14	17°47	22°20	21°57	T 5
F 6	16 59 26	15°35'25	11♉32	6° 7	29° 6	1°56	19°25	20°17	1° 1	3° 3	6°18	19°12	17°44	22°27	22° 1	F 6
S 7	17 3 22	16°32'46	26°34	6°24	0♋19	2°14	19°19	20°17	1° 4	3° 4	6°20	19° 8	17°41	22°33	22° 6	S 7
S 8	17 7 19	17°30'07	11♊42	6°37	1°33	2°33	19°13	20°16	1° 8	3° 4	6°21	19° 2	17°38	22°40	22°12	S 8
M 9	17 11 16	18°27'26	26°48	6°45	2°46	2°52	19° 7	20°15	1°11	3° 5	6°22	18°54	17°35	22°47	22°17	M 9
T 10	17 15 12	19°24'45	11♋42	6°R49	4° 0	3°12	19° 1	20°14	1°15	3° 6	6°23	18°44	17°31	22°53	22°22	T 10
W11	17 19 9	20°22'04	26°14	6°48	5°13	3°32	18°55	20°13	1°19	3° 7	6°25	18°36	17°28	23° 0	22°27	W11
T 12	17 23 5	21°19'21	10♌20	6°43	6°27	3°53	18°50	20°12	1°22	3° 8	6°26	18°28	17°25	23° 7	22°33	T 12
F 13	17 27 2	22°16'38	23°57	6°33	7°40	4°14	18°45	20°10	1°26	3° 9	6°27	18°23	17°22	23°13	22°38	F 13
S 14	17 30 58	23°13'53	7♍ 5	6°19	8°54	4°36	18°39	20° 9	1°29	3° 9	6°29	18°20	17°19	23°20	22°44	S 14
S 15	17 34 55	24°11'08	19°48	6° 2	10° 7	4°58	18°34	20° 8	1°33	3°10	6°30	18°D18	17°16	23°27	22°50	S 15
M16	17 38 51	25° 8'22	2♎10	5°40	11°20	5°20	18°29	20° 6	1°36	3°11	6°31	18°18	17°12	23°33	22°55	M16
T 17	17 42 48	26° 5'36	14°16	5°15	12°34	5°43	18°25	20° 4	1°40	3°11	6°33	18°R19	17° 9	23°40	23° 1	T 17
W18	17 46 45	27° 2'49	26°11	4°47	13°47	6° 6	18°20	20° 3	1°44	3°12	6°34	18°19	17° 6	23°47	23° 7	W18
T 19	17 50 41	28° 0'01	8♏ 0	4°17	15° 1	6°29	18°15	20° 1	1°47	3°12	6°36	18°17	17° 3	23°53	23°13	T 19
F 20	17 54 38	28°57'13	19°48	3°44	16°14	6°53	18°11	19°59	1°51	3°13	6°37	18°13	17° 0	24° 0	23°19	F 20
S 21	17 58 34	29°54'24	1♐38	3°10	17°27	7°17	18° 7	19°57	1°54	3°13	6°39	18° 6	16°57	24° 7	23°25	S 21
S 22	18 2 31	0♋51'35	13°34	2°35	18°41	7°42	18° 3	19°55	1°58	3°14	6°40	17°57	16°53	24°13	23°31	S 22
M23	18 6 27	1°48'46	25°37	1°59	19°54	8° 7	17°59	19°53	2° 2	3°14	6°42	17°46	16°50	24°20	23°37	M23
T 24	18 10 24	2°45'57	7♑48	1°24	21° 7	8°32	17°55	19°51	2° 5	3°15	6°43	17°33	16°47	24°27	23°44	T 24
W25	18 14 20	3°43'07	20°10	0°49	22°20	8°57	17°52	19°48	2° 9	3°15	6°45	17°20	16°44	24°33	23°50	W25
T 26	18 18 17	4°40'17	2♒42	0°16	23°34	9°23	17°49	19°46	2°13	3°16	6°46	17° 9	16°41	24°40	23°57	T 26
F 27	18 22 14	5°37'28	15°24	29♊45	24°47	9°49	17°45	19°43	2°16	3°16	6°48	16°59	16°37	24°47	24° 3	F 27
S 28	18 26 10	6°34'38	28°18	29°16	26° 0	10°16	17°42	19°41	2°20	3°16	6°49	16°52	16°34	24°54	24°10	S 28
S 29	18 30 7	7°31'48	11♓25	28°50	27°13	10°43	17°40	19°38	2°23	3°16	6°51	16°47	16°31	25° 0	24°16	S 29
M30	18 34 3	8♋28'59	24♓47	28♊28	28♋27	11♎10	17♏37	19♒35	2♋27	3♈17	6♌52	16♎45	16♎28	25♏ 7	24♌23	M30

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	22n 6	7s27	3n49	24n32	1n 6	23n56	0n39	0n16	0n31	16s41	1n 6	15s44	1s 3	23n43	0n15	0s 7	1s25	24n50	6n18	7s32	7s 4	15s29	8n46	5s51	S 1
M 2	22 14	3 22	2 55	24 19	0 55	24 2	0 41	0 8	0 29	16 40	1 6	15 44	1 3	23 43	0 15	0 7	1 25	24 50	6 17	7 32	7 3	15 30	8 46	5 50	M 2
T 3	22 21	1n 0	1 50	24 6	0 43	24 7	0 43	0s 0	0 27	16 38	1 6	15 44	1 3	23 43	0 15	0 6	1 25	24 49	6 17	7 32	7 2	15 31	8 45	5 50	T 3
W 4	22 29	5 27	0 37	23 52	0 30	24 11	0 45	0 9	0 25	16 37	1 6	15 45	1 4	23 43	0 15	0 6	1 25	24 49	6 17	7 33	7 1	15 32	8 44	5 49	W 4
T 5	22 35	9 43	0s40	23 38	0 17	24 15	0 48	0 18	0 23	16 35	1 6	15 45	1 4	23 43	0 15	0 6	1 25	24 49	6 17	7 32	6 59	15 33	8 43	5 48	T 5
F 6	22 42	13 28	1 57	23 23	0 3	24 18	0 50	0 26	0 22	16 34	1 5	15 45	1 4	23 43	0 15	0 5	1 25	24 48	6 17	7 32	6 58	15 34	8 42	5 47	F 6
S 7	22 48	16 24	3 6	23 7	0s12	24 20	0 52	0 35	0 20	16 32	1 5	15 46	1 4	23 43	0 15	0 5	1 25	24 48	6 17	7 30	6 57	15 35	8 41	5 47	S 7
S 8	22 53	18 13	4 3	22 51	0 27	24 22	0 54	0 44	0 18	16 31	1 5	15 46	1 4	23 43	0 15	0 5	1 25	24 48	6 17	7 28	6 56	15 36	8 40	5 46	S 8
M 9	22 58	18 44	4 43	22 35	0 43	24 23	0 56	0 54	0 16	16 29	1 5	15 47	1 4	23 43	0 15	0 4	1 25	24 47	6 17	7 25	6 55	15 37	8 39	5 45	M 9
T 10	23 3	17 56	5 2	22 19	0 59	24 23	0 58	1 3	0 15	16 28	1 5	15 47	1 5	23 43	0 15	0 4	1 25	24 47	6 17	7 21	6 53	15 38	8 38	5 45	T 10
W11	23 8	15 59	5 2	22 3	1 15	24 22	1 0	1 13	0 13	16 27	1 4	15 48	1 5	23 43	0 15	0 4	1 25	24 46	6 17	7 18	6 52	15 39	8 37	5 44	W11
T 12	23 11	13 8	4 43	21 47	1 32	24 21	1 2	1 22	0 11	16 25	1 4	15 48	1 5	23 43	0 15	0 4	1 25	24 46	6 17	7 15	6 51	15 40	8 36	5 43	T 12
F 13	23 15	9 39	4 8	21 30	1 49	24 19	1 4	1 32	0 10	16 24	1 4	15 49	1 5	23 43	0 15	0 3	1 25	24 46	6 17	7 13	6 50	15 41	8 35	5 43	F 13
S 14	23 18	5 48	3 22	21 14	2 5	24 16	1 6	1 42	0 8	16 23	1 4	15 49	1 5	23 43	0 15	0 3	1 25	24 45	6 17	7 12	6 49	15 42	8 34	5 42	S 14
S 15	23 21	1 48	2 26	20 59	2 22	24 13	1 7	1 53	0 6	16 22	1 4	15 50	1 5	23 43	0 15	0 3	1 26	24 45	6 17	7 11	6 47	15 43	8 33	5 41	S 15
M16	23 23	2s10	1 25	20 43	2 38	24 8	1 9	2 3	0 5	16 20	1 3	15 51	1 6	23 43	0 15	0 3	1 26	24 44	6 17	7 11	6 46	15 44	8 32	5 40	M16
T 17	23 25	5 58	0 22	20 28	2 54	24 3	1 11	2 13	0 3	16 19	1 3	15 51	1 6	23 43	0 15	0 2	1 26	24 44	6 17	7 11	6 45	15 45	8 30	5 40	T 17
W18	23 27	9 28	0n42	20 14	3 9	23 58	1 13	2 24	0 2	16 18	1 3	15 52	1 6	23 43	0 15	0 2	1 26	24 44	6 17	7 11	6 44	15 46	8 29	5 39	W18
T 19	23 28	12 35	1 43	20 1	3 24	23 51	1 14	2 34	0 0	16 17	1 3	15 53	1 6	23 43	0 15	0 2	1 26	24 43	6 17	7 11	6 42	15 47	8 28	5 39	T 19
F 20	23 28	15 10	2 39	19 48	3 38	23 44	1 16	2 45	0s 1	16 16	1 2	15 53	1 6	23 43	0 15	0 2	1 26	24 43	6 17	7 9	6 41	15 48	8 27	5 38	F 20
S 21	23 29	17 7	3 29	19 36	3 50	23 37	1 17	2 56	0 3	16 15	1 2	15 54	1 7	23 42	0 15	0 2	1 26	24 42	6 17	7 7	6 40	15 49	8 25	5 37	S 21
S 22	23 28	18 20	4 9	19 25	4 2	23 28	1 19	3 7	0 4	16 14	1 2	15 55	1 7	23 42	0 15	0 2	1 26	24 42	6 16	7 3	6 39	15 49	8 24	5 37	S 22
M23	23 28	18 45	4 39	19 15	4 12	23 19	1 20	3 18	0 5	16 14	1 2	15 56	1 7	23 42	0 15	0 1	1 26	24 42	6 16	6 59	6 38	15 50	8 22	5 36	M23
T 24	23 27	18 18	4 57	19 7	4 21	23 9	1 22	3 30	0 7	16 13	1 2	15 57	1 7	23 42	0 15	0 1	1 26	24 41	6 16	6 54	6 36	15 51	8 21	5 35	T 24
W25	23 25	17 0	5 1	19 0	4 29	22 59	1 23	3 41	0 8	16 12	1 1	15 58	1 7	23 42	0 15	0 1	1 26	24 41	6 16	6 49	6 35	15 52	8 19	5 35	W25
T 26	23 24	14 53	4 50	18 54	4 35	22 48	1 24	3 52	0 10	16 11	1 1	15 59	1 7	23 42	0 15	0 1	1 26	24 40	6 16	6 45	6 34	15 53	8 18	5 34	T 26
F 27	23 21	12 1	4 25	18 49	4 39	22 36	1 25	4 4	0 11	16 11	1 1	16 0	1 8	23 42	0 15	0 1	1 26	24 40	6 16	6 41	6 33	15 54	8 16	5 34	F 27
S 28	23 19	8 32	3 47	18 46	4 42	22 24	1 26	4 16	0 12	16 10	1 1	16 1	1 8	23 42	0 15	0 1	1 26	24 39	6 16	6 38	6 31	15 55	8 15	5 33	S 28
S 29	23 16	4 35	2 55	18 45	4 43	22 11	1 27	4 27	0 14	16 10	1 0	16 2	1 8	23 42	0 15	0 1	1 26	24 39	6 16	6 36	6 30	15 56	8 13	5 32	S 29
M30	23n12	0s20	1n54	18n45	4s43	21n57	1n28	4s39	0s15	16s 9	1n 0	16s 3	1s 8	23n42	0n15	0s 1	1s26	24n39	6n16	6s36	6s29	15s57	8n12	5s32	M30

Julian Day Number = 2341393.5, Delta T = 14.86 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'49, Lahiri = 19°38'50Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

JULY 1698 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 38 0	9♋26'10	8♈24	28°R10	29♋40	11♎37	17°R34	19°R32	2♋31	3♈17	6♌54	16°R45	16♎25	25♏14	24♌30	T 1
W 2	18 41 56	10°23'22	22°18	27♊56	0♌53	12° 5	17♏32	19♒30	2°34	3°17	6°56	16♎45	16°22	25°20	24°36	W 2
T 3	18 45 53	11°20'34	6♉31	27°47	2° 6	12°33	17°30	19°27	2°38	3°17	6°57	16°44	16°18	25°27	24°43	T 3
F 4	18 49 49	12°17'46	21° 0	27°D42	3°19	13° 1	17°28	19°24	2°41	3°17	6°59	16°41	16°15	25°34	24°50	F 4
S 5	18 53 46	13°14'59	5♊42	27°42	4°33	13°29	17°26	19°20	2°45	3°17	7° 0	16°36	16°12	25°40	24°57	S 5
S 6	18 57 43	14°12'12	20°33	27°48	5°46	13°58	17°25	19°17	2°48	3°R17	7° 2	16°28	16° 9	25°47	25° 4	S 6
M 7	19 1 39	15° 9'25	5♋23	27°59	6°59	14°27	17°23	19°14	2°52	3°17	7° 4	16°17	16° 6	25°54	25°11	M 7
T 8	19 5 36	16° 6'39	20° 5	28°15	8°12	14°56	17°22	19°11	2°55	3°17	7° 5	16° 6	16° 3	26° 0	25°18	T 8
W 9	19 9 32	17° 3'53	4♌30	28°36	9°25	15°26	17°21	19° 7	2°59	3°17	7° 7	15°55	15°59	26° 7	25°26	W 9
T 10	19 13 29	18° 1'08	18°33	29° 3	10°38	15°56	17°20	19° 4	3° 3	3°17	7° 9	15°45	15°56	26°14	25°33	T 10
F 11	19 17 25	18°58'22	2♍ 9	29°35	11°51	16°26	17°19	19° 0	3° 6	3°17	7°11	15°38	15°53	26°20	25°40	F 11
S 12	19 21 22	19°55'37	15°19	0♋13	13° 4	16°56	17°19	18°57	3°10	3°17	7°12	15°33	15°50	26°27	25°48	S 12
S 13	19 25 18	20°52'51	28° 4	0°55	14°17	17°27	17°19	18°53	3°13	3°16	7°14	15°30	15°47	26°34	25°55	S 13
M14	19 29 15	21°50'06	10♎27	1°43	15°30	17°58	17°D18	18°49	3°17	3°16	7°16	15°29	15°43	26°40	26° 2	M14
T 15	19 33 12	22°47'21	22°34	2°37	16°43	18°29	17°18	18°46	3°20	3°16	7°17	15°29	15°40	26°47	26°10	T 15
W16	19 37 8	23°44'37	4♏30	3°35	17°56	19° 0	17°19	18°42	3°23	3°16	7°19	15°29	15°37	26°54	26°17	W16
T 17	19 41 5	24°41'52	16°20	4°39	19° 9	19°32	17°19	18°38	3°27	3°15	7°21	15°27	15°34	27° 0	26°25	T 17
F 18	19 45 1	25°39'08	28°10	5°47	20°22	20° 3	17°20	18°34	3°30	3°15	7°23	15°24	15°31	27° 7	26°33	F 18
S 19	19 48 58	26°36'25	10♐ 3	7° 0	21°35	20°35	17°21	18°30	3°34	3°14	7°24	15°17	15°28	27°14	26°40	S 19
S 20	19 52 54	27°33'42	22° 4	8°19	22°48	21° 8	17°21	18°26	3°37	3°14	7°26	15° 8	15°24	27°20	26°48	S 20
M21	19 56 51	28°30'59	4♑16	9°42	24° 1	21°40	17°23	18°22	3°40	3°13	7°28	14°57	15°21	27°27	26°56	M21
T 22	20 0 47	29°28'17	16°39	11° 9	25°14	22°13	17°24	18°18	3°44	3°13	7°30	14°45	15°18	27°34	27° 3	T 22
W23	20 4 44	0♌25'36	29°16	12°41	26°26	22°45	17°25	18°14	3°47	3°12	7°31	14°33	15°15	27°40	27°11	W23
T 24	20 8 41	1°22'55	12♒ 5	14°17	27°39	23°18	17°27	18°10	3°50	3°12	7°33	14°21	15°12	27°47	27°19	T 24
F 25	20 12 37	2°20'16	25° 7	15°57	28°52	23°52	17°29	18° 5	3°54	3°11	7°35	14°12	15° 9	27°54	27°27	F 25
S 26	20 16 34	3°17'37	8♓20	17°40	0♍ 5	24°25	17°31	18° 1	3°57	3°11	7°37	14° 5	15° 5	28° 1	27°35	S 26
S 27	20 20 30	4°14'59	21°44	19°28	1°18	24°59	17°33	17°57	4° 0	3°10	7°38	14° 0	15° 2	28° 7	27°43	S 27
M28	20 24 27	5°12'22	5♈19	21°18	2°30	25°32	17°36	17°53	4° 3	3° 9	7°40	13°58	14°59	28°14	27°51	M28
T 29	20 28 23	6° 9'46	19° 4	23°11	3°43	26° 6	17°38	17°48	4° 7	3° 9	7°42	13°D58	14°56	28°21	27°59	T 29
W30	20 32 20	7° 7'12	2♉59	25° 7	4°56	26°41	17°41	17°44	4°10	3° 8	7°44	13°R59	14°53	28°27	28° 7	W30
T 31	20 36 16	8♌ 4'39	17♉ 5	27♋ 5	6♍ 8	27♎15	17♏44	17♒40	4♋13	3♈ 7	7♌46	13♎58	14♎49	28♏34	28♌15	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
T 1	23n 8	4n 1	0n44	18n46	4s42	21n43	1n29	4s51	0s16	16s 9	1n 0	16s 4	1s 8	23n42	0n15	0s 1	1s26	24n38	6n16	6s35	6s28	15s58	8n10	5s31
W 2	23 4	8 15	0s29	18 49	4 39	21 28	1 30	5 3	0 17	16 8	1 0	16 5	1 8	23 42	0 15	0 1	1 26	24 38	6 16	6 35	6 27	15 59	8 8	5 31
T 3	22 59	12 6	1 43	18 53	4 34	21 12	1 31	5 15	0 19	16 8	0 59	16 6	1 8	23 42	0 15	0 1	1 26	24 37	6 16	6 35	6 25	16 0	8 7	5 30
F 4	22 54	15 17	2 51	18 59	4 29	20 56	1 32	5 27	0 20	16 8	0 59	16 7	1 9	23 42	0 15	0 1	1 27	24 37	6 16	6 34	6 24	16 0	8 5	5 30
S 5	22 49	17 33	3 48	19 6	4 22	20 39	1 33	5 39	0 21	16 7	0 59	16 8	1 9	23 42	0 15	0 1	1 27	24 36	6 16	6 32	6 23	16 1	8 3	5 29
S 6	22 43	18 38	4 31	19 14	4 14	20 22	1 33	5 52	0 22	16 7	0 59	16 9	1 9	23 42	0 15	0 1	1 27	24 36	6 16	6 29	6 22	16 2	8 1	5 29
M 7	22 37	18 27	4 55	19 23	4 5	20 4	1 34	6 4	0 24	16 7	0 58	16 10	1 9	23 42	0 15	0 1	1 27	24 36	6 16	6 25	6 20	16 3	7 59	5 28
T 8	22 30	17 2	5 0	19 33	3 55	19 46	1 34	6 17	0 25	16 7	0 58	16 11	1 9	23 42	0 15	0 1	1 27	24 35	6 16	6 21	6 19	16 4	7 58	5 28
W 9	22 23	14 33	4 45	19 44	3 44	19 27	1 35	6 29	0 26	16 7	0 58	16 13	1 9	23 41	0 15	0 1	1 27	24 35	6 16	6 16	6 18	16 5	7 56	5 27
T 10	22 16	11 16	4 13	19 55	3 33	19 7	1 35	6 42	0 27	16 7	0 58	16 14	1 10	23 41	0 15	0 1	1 27	24 34	6 16	6 13	6 17	16 6	7 54	5 26
F 11	22 8	7 29	3 28	20 7	3 21	18 47	1 35	6 54	0 28	16 7	0 57	16 15	1 10	23 41	0 15	0 1	1 27	24 34	6 16	6 10	6 16	16 7	7 52	5 26
S 12	22 0	3 27	2 33	20 20	3 8	18 27	1 35	7 7	0 29	16 7	0 57	16 16	1 10	23 41	0 15	0 2	1 27	24 33	6 16	6 8	6 14	16 8	7 50	5 26
S 13	21 51	0s37	1 31	20 33	2 55	18 5	1 36	7 20	0 30	16 7	0 57	16 18	1 10	23 41	0 15	0 2	1 27	24 33	6 16	6 7	6 13	16 8	7 48	5 25
M14	21 42	4 33	0 27	20 46	2 42	17 44	1 36	7 32	0 31	16 7	0 57	16 19	1 10	23 41	0 15	0 2	1 27	24 33	6 16	6 6	6 12	16 9	7 46	5 25
T 15	21 33	8 13	0n37	20 59	2 28	17 22	1 36	7 45	0 33	16 8	0 56	16 20	1 10	23 41	0 15	0 2	1 27	24 32	6 16	6 6	6 11	16 10	7 44	5 24
W16	21 23	11 29	1 39	21 12	2 14	17 0	1 35	7 58	0 34	16 8	0 56	16 22	1 10	23 41	0 15	0 2	1 27	24 32	6 16	6 6	6 9	16 11	7 42	5 24
T 17	21 13	14 16	2 36	21 24	2 0	16 37	1 35	8 11	0 35	16 8	0 56	16 23	1 11	23 41	0 15	0 2	1 27	24 31	6 17	6 6	6 8	16 12	7 40	5 23
F 18	21 3	16 26	3 26	21 36	1 45	16 13	1 35	8 24	0 36	16 9	0 56	16 24	1 11	23 41	0 15	0 3	1 27	24 31	6 17	6 4	6 7	16 13	7 37	5 23
S 19	20 52	17 55	4 7	21 46	1 31	15 50	1 35	8 37	0 37	16 9	0 55	16 26	1 11	23 41	0 15	0 3	1 27	24 30	6 17	6 2	6 6	16 14	7 35	5 22
S 20	20 41	18 37	4 38	21 56	1 17	15 25	1 34	8 50	0 38	16 10	0 55	16 27	1 11	23 41	0 15	0 3	1 27	24 30	6 17	5 58	6 5	16 14	7 33	5 22
M21	20 29	18 29	4 56	22 5	1 3	15 1	1 34	9 3	0 39	16 10	0 55	16 28	1 11	23 41	0 15	0 3	1 27	24 30	6 17	5 54	6 3	16 15	7 31	5 21
T 22	20 18	17 27	5 1	22 12	0 49	14 36	1 33	9 16	0 40	16 11	0 55	16 30	1 11	23 40	0 15	0 3	1 28	24 29	6 17	5 49	6 2	16 16	7 29	5 21
W23	20 5	15 35	4 51	22 18	0 35	14 10	1 33	9 30	0 41	16 11	0 54	16 31	1 11	23 40	0 15	0 4	1 28	24 29	6 17	5 45	6 1	16 17	7 27	5 21
T 24	19 53	12 55	4 27	22 21	0 21	13 45	1 32	9 43	0 41	16 12	0 54	16 33	1 11	23 40	0 15	0 4	1 28	24 28	6 17	5 40	6 0	16 18	7 24	5 20
F 25	19 40	9 35	3 49	22 23	0 8	13 19	1 31	9 56	0 42	16 13	0 54	16 34	1 12	23 40	0 15	0 4	1 28	24 28	6 17	5 36	5 58	16 19	7 22	5 20
S 26	19 27	5 43	2 57	22 23	0n 4	12 52	1 30	10 9	0 43	16 14	0 54	16 35	1 12	23 40	0 15	0 5	1 28	24 28	6 17	5 34	5 57	16 20	7 20	5 19
S 27	19 14	1 31	1 55	22 20	0 16	12 26	1 30	10 22	0 44	16 15	0 53	16 37	1 12	23 40	0 15	0 5	1 28	24 27	6 17	5 32	5 56	16 20	7 17	5 19
M28	19 0	2n49	0 46	22 14	0 28	11 59	1 29	10 35	0 45	16 15	0 53	16 38	1 12	23 40	0 15	0 5	1 28	24 27	6 17	5 31	5 55	16 21	7 15	5 19
T 29	18 46	7 4	0s27	22 7	0 38	11 31	1 28	10 49	0 46	16 16	0 53	16 40	1 12	23 40	0 15	0 5	1 28	24 26	6 17	5 31	5 53	16 22	7 13	5 18
W30	18 31	10 58	1 40	21 56	0 48	11 4	1 26	11 2	0 47	16 17	0 53	16 41	1 12	23 40	0 15	0 6	1 28	24 26	6 17	5 31	5 52	16 23	7 10	5 18
T 31	18n17	14n18	2s47	21n43	0n58	10n36	1n25	11s15	0s48	16s18	0n52	16s43	1s12	23n40	0n15	0s 6	1s28	24n25	6n17	5s31	5s51	16s24	7n 8	5s18

Julian Day Number = 2341423.5, Delta T = 14.83 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'53, Lahiri = 19°38'54Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

AUGUST 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 40 13	9♌ 2'07	1♊21	29♋ 5	7♍21	27♎50	17♏47	17°R35	4♋16	3°R 6	7♌47	13°R57	14♎46	28♏41	28♌23	F 1
S 2	20 44 10	9°59'37	15°44	1♌ 6	8°33	28°24	17°50	17♒31	4°19	3♈ 6	7°49	13♎52	14°43	28°47	28°31	S 2
S 3	20 48 6	10°57'08	0♋11	3° 9	9°46	28°59	17°53	17°26	4°22	3° 5	7°51	13°46	14°40	28°54	28°39	S 3
M 4	20 52 3	11°54'40	14°36	5°12	10°59	29°34	17°57	17°22	4°25	3° 4	7°53	13°37	14°37	29° 1	28°47	M 4
T 5	20 55 59	12°52'14	28°55	7°15	12°11	0♏10	18° 1	17°17	4°28	3° 3	7°55	13°28	14°34	29° 7	28°55	T 5
W 6	20 59 56	13°49'48	13♌ 1	9°19	13°24	0°45	18° 5	17°13	4°31	3° 2	7°56	13°18	14°30	29°14	29° 4	W 6
T 7	21 3 52	14°47'24	26°48	11°22	14°36	1°21	18° 9	17° 8	4°34	3° 1	7°58	13°10	14°27	29°21	29°12	T 7
F 8	21 7 49	15°45'01	10♍15	13°26	15°49	1°56	18°13	17° 4	4°37	3° 0	8° 0	13° 4	14°24	29°27	29°20	F 8
S 9	21 11 45	16°42'39	23°19	15°28	17° 1	2°32	18°17	16°59	4°40	2°59	8° 2	13° 0	14°21	29°34	29°28	S 9
S 10	21 15 42	17°40'18	6♎ 1	17°30	18°13	3° 9	18°22	16°55	4°43	2°58	8° 3	12°58	14°18	29°41	29°37	S 10
M11	21 19 39	18°37'58	18°24	19°31	19°26	3°45	18°27	16°50	4°46	2°57	8° 5	12°D58	14°15	29°47	29°45	M11
T 12	21 23 35	19°35'39	0♏32	21°31	20°38	4°21	18°32	16°46	4°49	2°56	8° 7	12°59	14°11	29°54	29°53	T 12
W13	21 27 32	20°33'21	12°29	23°30	21°50	4°58	18°37	16°41	4°51	2°55	8° 9	13° 0	14° 8	0♐ 1	0♍ 2	W13
T 14	21 31 28	21°31'05	24°21	25°28	23° 3	5°35	18°42	16°37	4°54	2°54	8°10	13°R 0	14° 5	0° 7	0°10	T 14
F 15	21 35 25	22°28'49	6♐12	27°24	24°15	6°12	18°47	16°32	4°57	2°52	8°12	12°59	14° 2	0°14	0°18	F 15
S 16	21 39 21	23°26'35	18° 7	29°19	25°27	6°49	18°53	16°28	5° 0	2°51	8°14	12°56	13°59	0°21	0°27	S 16
S 17	21 43 18	24°24'22	0♑12	1♍13	26°39	7°26	18°58	16°24	5° 2	2°50	8°16	12°51	13°55	0°28	0°35	S 17
M18	21 47 14	25°22'10	12°29	3° 6	27°51	8° 3	19° 4	16°19	5° 5	2°49	8°17	12°44	13°52	0°34	0°44	M18
T 19	21 51 11	26°19'59	25° 2	4°57	29° 3	8°41	19°10	16°15	5° 7	2°48	8°19	12°36	13°49	0°41	0°52	T 19
W20	21 55 8	27°17'50	7♒52	6°47	0♎15	9°18	19°16	16°10	5°10	2°46	8°21	12°28	13°46	0°48	1° 0	W20
T 21	21 59 4	28°15'42	20°58	8°35	1°27	9°56	19°23	16° 6	5°12	2°45	8°22	12°21	13°43	0°54	1° 9	T 21
F 22	22 3 1	29°13'36	4♓21	10°22	2°39	10°34	19°29	16° 2	5°15	2°44	8°24	12°15	13°40	1° 1	1°17	F 22
S 23	22 6 57	0♍11'31	17°58	12° 8	3°51	11°12	19°35	15°57	5°17	2°42	8°26	12°10	13°36	1° 8	1°26	S 23
S 24	22 10 54	1° 9'28	1♈46	13°53	5° 3	11°50	19°42	15°53	5°20	2°41	8°27	12° 8	13°33	1°14	1°34	S 24
M25	22 14 50	2° 7'26	15°44	15°36	6°15	12°29	19°49	15°49	5°22	2°40	8°29	12°D 8	13°30	1°21	1°43	M25
T 26	22 18 47	3° 5'27	29°48	17°18	7°27	13° 7	19°56	15°45	5°24	2°38	8°31	12° 9	13°27	1°28	1°51	T 26
W27	22 22 43	4° 3'29	13♉56	18°59	8°39	13°46	20° 3	15°41	5°27	2°37	8°32	12°10	13°24	1°34	2° 0	W27
T 28	22 26 40	5° 1'33	28° 6	20°38	9°50	14°25	20°10	15°37	5°29	2°36	8°34	12°11	13°20	1°41	2° 8	T 28
F 29	22 30 37	5°59'40	12♊17	22°16	11° 2	15° 3	20°18	15°32	5°31	2°34	8°36	12°R11	13°17	1°48	2°16	F 29
S 30	22 34 33	6°57'48	26°27	23°53	12°14	15°43	20°25	15°28	5°33	2°33	8°37	12°10	13°14	1°54	2°25	S 30
S 31	22 38 30	7♍55'59	10♋33	25♍29	13♎26	16♏22	20♏33	15♒24	5♋35	2♈31	8♌39	12♎ 7	13♎11	2♐ 1	2♍33	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	18n 1	16n48	3s44	21n27	1n 6	10n 7	1n24	11s28	0s49	16s20	0n52	16s44	1s12	23n40	0n15	0s 7	1s28	24n25	6n17	5s30	5s50	16s24	7n 5	5s17
S 2	17 46	18 16	4 28	21 9	1 14	9 39	1 23	11 42	0 49	16 21	0 52	16 45	1 12	23 40	0 15	0 7	1 28	24 25	6 17	5 29	5 49	16 25	7 3	5 17
S 3	17 31	18 33	4 56	20 47	1 21	9 10	1 21	11 55	0 50	16 22	0 52	16 47	1 12	23 39	0 15	0 7	1 28	24 24	6 17	5 26	5 47	16 26	7 0	5 17
M 4	17 15	17 38	5 4	20 24	1 27	8 41	1 20	12 8	0 51	16 23	0 51	16 48	1 13	23 39	0 15	0 8	1 28	24 24	6 18	5 23	5 46	16 27	6 58	5 16
T 5	16 59	15 37	4 53	19 58	1 32	8 12	1 18	12 21	0 52	16 24	0 51	16 50	1 13	23 39	0 15	0 8	1 28	24 23	6 18	5 19	5 45	16 28	6 55	5 16
W 6	16 42	12 42	4 25	19 30	1 36	7 43	1 16	12 35	0 53	16 26	0 51	16 51	1 13	23 39	0 15	0 8	1 28	24 23	6 18	5 16	5 44	16 29	6 53	5 16
T 7	16 25	9 8	3 41	18 59	1 40	7 13	1 15	12 48	0 54	16 27	0 51	16 53	1 13	23 39	0 15	0 9	1 28	24 23	6 18	5 12	5 42	16 29	6 50	5 15
F 8	16 8	5 11	2 46	18 27	1 42	6 43	1 13	13 1	0 54	16 28	0 50	16 54	1 13	23 39	0 15	0 9	1 28	24 22	6 18	5 10	5 41	16 30	6 48	5 15
S 9	15 51	1 5	1 43	17 53	1 44	6 13	1 11	13 14	0 55	16 30	0 50	16 56	1 13	23 39	0 15	0 10	1 28	24 22	6 18	5 8	5 40	16 31	6 45	5 15
S 10	15 34	2s58	0 37	17 17	1 45	5 43	1 9	13 27	0 56	16 31	0 50	16 57	1 13	23 39	0 15	0 10	1 28	24 22	6 18	5 8	5 39	16 32	6 43	5 15
M11	15 16	6 46	0n29	16 40	1 46	5 13	1 7	13 40	0 57	16 33	0 50	16 59	1 13	23 39	0 15	0 11	1 28	24 21	6 18	5 8	5 37	16 33	6 40	5 14
T 12	14 58	10 13	1 33	16 1	1 46	4 43	1 5	13 53	0 57	16 34	0 49	17 0	1 13	23 39	0 15	0 11	1 29	24 21	6 18	5 8	5 36	16 33	6 37	5 14
W13	14 40	13 12	2 32	15 21	1 45	4 12	1 3	14 6	0 58	16 36	0 49	17 1	1 13	23 39	0 15	0 12	1 29	24 20	6 18	5 8	5 35	16 34	6 35	5 14
T 14	14 21	15 35	3 24	14 41	1 44	3 42	1 1	14 19	0 59	16 38	0 49	17 3	1 13	23 39	0 15	0 12	1 29	24 20	6 19	5 8	5 34	16 35	6 32	5 14
F 15	14 2	17 19	4 7	13 59	1 42	3 11	0 58	14 32	0 59	16 39	0 49	17 4	1 13	23 38	0 16	0 13	1 29	24 20	6 19	5 8	5 33	16 36	6 29	5 13
S 16	13 44	18 18	4 40	13 16	1 39	2 40	0 56	14 45	1 0	16 41	0 48	17 6	1 14	23 38	0 16	0 13	1 29	24 19	6 19	5 7	5 31	16 36	6 27	5 13
S 17	13 24	18 28	5 1	12 33	1 36	2 9	0 54	14 58	1 1	16 43	0 48	17 7	1 14	23 38	0 16	0 14	1 29	24 19	6 19	5 5	5 30	16 37	6 24	5 13
M18	13 5	17 47	5 8	11 49	1 32	1 38	0 51	15 11	1 1	16 45	0 48	17 8	1 14	23 38	0 16	0 14	1 29	24 19	6 19	5 2	5 29	16 38	6 21	5 13
T 19	12 46	16 14	5 1	11 5	1 28	1 7	0 49	15 24	1 2	16 47	0 48	17 10	1 14	23 38	0 16	0 15	1 29	24 18	6 19	4 59	5 28	16 39	6 19	5 12
W20	12 26	13 50	4 39	10 20	1 24	0 36	0 46	15 36	1 3	16 48	0 48	17 11	1 14	23 38	0 16	0 15	1 29	24 18	6 19	4 56	5 26	16 40	6 16	5 12
T 21	12 6	10 43	4 1	9 35	1 19	0 5	0 43	15 49	1 3	16 50	0 47	17 13	1 14	23 38	0 16	0 16	1 29	24 18	6 19	4 53	5 25	16 40	6 13	5 12
F 22	11 46	6 59	3 10	8 50	1 14	0s26	0 41	16 2	1 4	16 52	0 47	17 14	1 14	23 38	0 16	0 16	1 29	24 17	6 19	4 51	5 24	16 41	6 10	5 12
S 23	11 25	2 49	2 7	8 5	1 9	0 57	0 38	16 14	1 5	16 54	0 47	17 15	1 14	23 38	0 16	0 17	1 29	24 17	6 20	4 49	5 23	16 42	6 7	5 12
S 24	11 5	1n34	0 56	7 19	1 3	1 28	0 35	16 27	1 5	16 56	0 47	17 17	1 14	23 38	0 16	0 17	1 29	24 17	6 20	4 48	5 21	16 43	6 5	5 12
M25	10 44	5 54	0s20	6 34	0 57	2 0	0 32	16 39	1 6	16 58	0 46	17 18	1 14	23 38	0 16	0 18	1 29	24 16	6 20	4 48	5 20	16 43	6 2	5 11
T 26	10 23	9 56	1 35	5 48	0 51	2 31	0 29	16 51	1 6	17 0	0 46	17 19	1 14	23 38	0 16	0 19	1 29	24 16	6 20	4 48	5 19	16 44	5 59	5 11
W27	10 2	13 26	2 44	5 3	0 44	3 2	0 26	17 4	1 7	17 3	0 46	17 20	1 14	23 38	0 16	0 19	1 29	24 16	6 20	4 49	5 18	16 45	5 56	5 11
T 28	9 41	16 7	3 44	4 18	0 38	3 33	0 23	17 16	1 8	17 5	0 46	17 22	1 14	23 37	0 16	0 20	1 29	24 15	6 20	4 49	5 16	16 46	5 53	5 11
F 29	9 20	17 50	4 30	3 32	0 31	4 4	0 20	17 28	1 8	17 7	0 46	17 23	1 14	23 37	0 16	0 20	1 29	24 15	6 20	4 49	5 15	16 46	5 50	5 11
S 30	8 58	18 26	5 0	2 47	0 23	4 35	0 17	17 40	1 9	17 9	0 45	17 24	1 14	23 37	0 16	0 21	1 29	24 15	6 21	4 49	5 14	16 47	5 48	5 11
S 31	8n36	17n53	5s12	2n 3	0n16	5s 6	0n14	17s52	1s 9	17s11	0n45	17s25	1s14	23n37	0n16	0s22	1s29	24n15	6n21	4s48	5s13	16s48	5n45	5s11

Julian Day Number = 2341454.5, Delta T = 14.79 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'58, Lahiri = 19°38'58Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

SEPTEMBER 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 42 26	8♍54'11	24♋34	27♍ 4	14♎37	17♏ 1	20♏41	15°R20	5♋37	2°R30	8♌40	12°R 3	13♎ 8	2♐ 8	2♍42	M 1
T 2	22 46 23	9°52'26	8♌25	28°37	15°49	17°40	20°48	15♒17	5°39	2♈28	8°42	11♎58	13° 5	2°15	2°50	T 2
W 3	22 50 19	10°50'42	22° 4	0♎ 9	17° 0	18°20	20°57	15°13	5°41	2°27	8°44	11°53	13° 1	2°21	2°59	W 3
T 4	22 54 16	11°49'00	5♍29	1°40	18°12	19° 0	21° 5	15° 9	5°43	2°25	8°45	11°48	12°58	2°28	3° 7	T 4
F 5	22 58 12	12°47'20	18°37	3°10	19°23	19°39	21°13	15° 5	5°45	2°24	8°47	11°45	12°55	2°35	3°15	F 5
S 6	23 2 9	13°45'42	1♎27	4°38	20°35	20°19	21°21	15° 2	5°47	2°22	8°48	11°43	12°52	2°41	3°24	S 6
S 7	23 6 5	14°44'05	14° 1	6° 6	21°46	20°59	21°30	14°58	5°49	2°21	8°50	11°D43	12°49	2°48	3°32	S 7
M 8	23 10 2	15°42'30	26°20	7°32	22°57	21°39	21°39	14°54	5°51	2°19	8°51	11°44	12°46	2°55	3°41	M 8
T 9	23 13 59	16°40'57	8♏26	8°57	24° 8	22°20	21°47	14°51	5°52	2°17	8°53	11°45	12°42	3° 1	3°49	T 9
W10	23 17 55	17°39'26	20°22	10°21	25°20	23° 0	21°56	14°48	5°54	2°16	8°54	11°47	12°39	3° 8	3°57	W10
T 11	23 21 52	18°37'56	2♐14	11°43	26°31	23°41	22° 5	14°44	5°56	2°14	8°56	11°48	12°36	3°15	4° 6	T 11
F 12	23 25 48	19°36'29	14° 5	13° 4	27°42	24°21	22°14	14°41	5°57	2°13	8°57	11°49	12°33	3°21	4°14	F 12
S 13	23 29 45	20°35'02	26° 1	14°24	28°53	25° 2	22°23	14°38	5°59	2°11	8°58	11°R49	12°30	3°28	4°22	S 13
S 14	23 33 41	21°33'38	8♑ 5	15°42	0♏ 4	25°43	22°33	14°35	6° 0	2° 9	9° 0	11°48	12°26	3°35	4°30	S 14
M15	23 37 38	22°32'15	20°24	16°59	1°15	26°24	22°42	14°32	6° 2	2° 8	9° 1	11°47	12°23	3°42	4°39	M15
T 16	23 41 34	23°30'54	3♒ 0	18°15	2°26	27° 5	22°52	14°29	6° 3	2° 6	9° 3	11°44	12°20	3°48	4°47	T 16
W17	23 45 31	24°29'34	15°56	19°28	3°37	27°46	23° 1	14°26	6° 4	2° 4	9° 4	11°42	12°17	3°55	4°55	W17
T 18	23 49 28	25°28'17	29°13	20°41	4°47	28°27	23°11	14°23	6° 6	2° 3	9° 5	11°39	12°14	4° 2	5° 3	T 18
F 19	23 53 24	26°27'01	12♓52	21°51	5°58	29° 9	23°21	14°20	6° 7	2° 1	9° 6	11°37	12°11	4° 8	5°11	F 19
S 20	23 57 21	27°25'47	26°50	22°59	7° 9	29°50	23°31	14°17	6° 8	1°59	9° 8	11°36	12° 7	4°15	5°20	S 20
S 21	0 1 17	28°24'35	11♈ 4	24° 6	8°19	0♐32	23°41	14°15	6° 9	1°58	9° 9	11°D36	12° 4	4°22	5°28	S 21
M22	0 5 14	29°23'25	25°29	25°10	9°30	1°14	23°51	14°12	6°10	1°56	9°10	11°36	12° 1	4°28	5°36	M22
T 23	0 9 10	0♎22'17	10♉ 0	26°12	10°40	1°55	24° 1	14°10	6°11	1°54	9°12	11°37	11°58	4°35	5°44	T 23
W24	0 13 7	1°21'12	24°31	27°12	11°51	2°37	24°12	14° 8	6°12	1°53	9°13	11°38	11°55	4°42	5°52	W24
T 25	0 17 3	2°20'09	8♊57	28° 9	13° 1	3°19	24°22	14° 5	6°13	1°51	9°14	11°39	11°52	4°48	6° 0	T 25
F 26	0 21 0	3°19'08	23°16	29° 3	14°11	4° 1	24°33	14° 3	6°14	1°49	9°15	11°39	11°48	4°55	6° 8	F 26
S 27	0 24 57	4°18'10	7♋23	29°54	15°21	4°44	24°43	14° 1	6°15	1°48	9°16	11°R39	11°45	5° 2	6°16	S 27
S 28	0 28 53	5°17'14	21°18	0♏41	16°31	5°26	24°54	13°59	6°15	1°46	9°17	11°39	11°42	5° 9	6°24	S 28
M29	0 32 50	6°16'20	5♌ 0	1°25	17°41	6° 8	25° 5	13°57	6°16	1°44	9°18	11°38	11°39	5°15	6°31	M29
T 30	0 36 46	7♎15'29	18♌28	2♏ 5	18♏51	6♐51	25♏16	13♒55	6♋17	1♈43	9♌20	11♎38	11♎36	5♐22	6♍39	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	8n15	16n15	5s 4	1n18	0n 9	5s36	0n11	18s 3	1s10	17s14	0n45	17s27	1s14	23n37	0n16	0s22	1s29	24n14	6n21	4s46	5s12	16s48	5n42	5s10
T 2	7 53	13 41	4 39	0 34	0 1	6 7	0 8	18 15	1 10	17 16	0 45	17 28	1 14	23 37	0 16	0 23	1 29	24 14	6 21	4 44	5 10	16 49	5 39	5 10
W 3	7 31	10 24	3 59	0s10	0s 6	6 37	0 4	18 27	1 11	17 18	0 45	17 29	1 14	23 37	0 16	0 23	1 29	24 14	6 21	4 42	5 9	16 50	5 36	5 10
T 4	7 8	6 38	3 6	0 53	0 14	7 8	0 1	18 38	1 11	17 20	0 44	17 30	1 14	23 37	0 16	0 24	1 29	24 13	6 21	4 40	5 8	16 51	5 33	5 10
F 5	6 46	2 37	2 3	1 36	0 22	7 38	0s 2	18 50	1 12	17 23	0 44	17 31	1 14	23 37	0 16	0 25	1 29	24 13	6 22	4 39	5 7	16 51	5 30	5 10
S 6	6 24	1s26	0 56	2 18	0 30	8 8	0 6	19 1	1 12	17 25	0 44	17 32	1 14	23 37	0 16	0 25	1 29	24 13	6 22	4 39	5 5	16 52	5 27	5 10
S 7	6 1	5 21	0n13	3 0	0 38	8 38	0 9	19 12	1 13	17 28	0 44	17 33	1 14	23 37	0 16	0 26	1 29	24 13	6 22	4 38	5 4	16 53	5 24	5 10
M 8	5 39	8 57	1 20	3 42	0 46	9 8	0 13	19 23	1 13	17 30	0 44	17 34	1 14	23 37	0 16	0 27	1 29	24 12	6 22	4 39	5 3	16 53	5 21	5 10
T 9	5 16	12 6	2 22	4 23	0 54	9 38	0 16	19 34	1 14	17 32	0 43	17 35	1 14	23 37	0 16	0 27	1 29	24 12	6 22	4 39	5 2	16 54	5 19	5 10
W10	4 53	14 42	3 17	5 3	1 2	10 7	0 20	19 45	1 14	17 35	0 43	17 36	1 14	23 37	0 16	0 28	1 29	24 12	6 22	4 40	5 0	16 55	5 16	5 10
T 11	4 30	16 40	4 3	5 43	1 10	10 36	0 23	19 55	1 15	17 37	0 43	17 37	1 14	23 37	0 16	0 29	1 29	24 12	6 23	4 41	4 59	16 56	5 13	5 10
F 12	4 7	17 54	4 39	6 22	1 18	11 5	0 27	20 6	1 15	17 40	0 43	17 38	1 14	23 37	0 16	0 29	1 29	24 12	6 23	4 41	4 58	16 56	5 10	5 10
S 13	3 44	18 21	5 4	7 1	1 26	11 34	0 30	20 16	1 15	17 42	0 43	17 39	1 14	23 37	0 16	0 30	1 29	24 11	6 23	4 41	4 57	16 57	5 7	5 10
S 14	3 21	17 59	5 15	7 38	1 34	12 3	0 34	20 27	1 16	17 45	0 43	17 40	1 14	23 37	0 16	0 31	1 29	24 11	6 23	4 40	4 55	16 58	5 4	5 10
M15	2 58	16 47	5 12	8 15	1 42	12 31	0 38	20 37	1 16	17 48	0 42	17 41	1 14	23 36	0 16	0 31	1 30	24 11	6 23	4 40	4 54	16 58	5 1	5 10
T 16	2 35	14 45	4 54	8 51	1 50	12 59	0 41	20 47	1 17	17 50	0 42	17 42	1 14	23 36	0 16	0 32	1 30	24 11	6 24	4 39	4 53	16 59	4 58	5 10
W17	2 11	11 56	4 21	9 27	1 58	13 27	0 45	20 57	1 17	17 53	0 42	17 43	1 14	23 36	0 16	0 33	1 30	24 11	6 24	4 38	4 52	17 0	4 55	5 10
T 18	1 48	8 26	3 33	10 1	2 5	13 54	0 49	21 6	1 17	17 55	0 42	17 44	1 14	23 36	0 16	0 33	1 30	24 10	6 24	4 37	4 50	17 0	4 52	5 10
F 19	1 25	4 24	2 32	10 35	2 13	14 21	0 52	21 16	1 18	17 58	0 42	17 44	1 14	23 36	0 16	0 34	1 30	24 10	6 24	4 36	4 49	17 1	4 49	5 10
S 20	1 1	0 1	1 21	11 7	2 20	14 48	0 56	21 25	1 18	18 1	0 41	17 45	1 14	23 36	0 16	0 35	1 30	24 10	6 24	4 36	4 48	17 2	4 46	5 10
S 21	0 38	4n26	0 3	11 38	2 27	15 14	1 0	21 34	1 18	18 3	0 41	17 46	1 14	23 36	0 16	0 35	1 30	24 10	6 25	4 36	4 47	17 2	4 43	5 10
M22	0 15	8 41	1s16	12 9	2 34	15 41	1 3	21 43	1 19	18 6	0 41	17 47	1 14	23 36	0 16	0 36	1 30	24 10	6 25	4 36	4 45	17 3	4 40	5 10
T 23	0s 9	12 27	2 31	12 38	2 41	16 6	1 7	21 52	1 19	18 9	0 41	17 47	1 14	23 36	0 16	0 37	1 30	24 10	6 25	4 36	4 44	17 4	4 37	5 10
W24	0 32	15 26	3 36	13 5	2 47	16 32	1 11	22 1	1 19	18 11	0 41	17 48	1 14	23 36	0 16	0 37	1 30	24 10	6 25	4 36	4 43	17 4	4 34	5 10
T 25	0 56	17 26	4 27	13 32	2 53	16 57	1 14	22 9	1 20	18 14	0 41	17 49	1 14	23 36	0 16	0 38	1 30	24 9	6 25	4 37	4 42	17 5	4 31	5 10
F 26	1 19	18 18	5 1	13 57	2 59	17 22	1 18	22 18	1 20	18 17	0 40	17 49	1 14	23 36	0 16	0 39	1 30	24 9	6 26	4 37	4 40	17 6	4 28	5 10
S 27	1 43	18 0	5 16	14 20	3 5	17 46	1 22	22 26	1 20	18 20	0 40	17 50	1 14	23 36	0 16	0 39	1 30	24 9	6 26	4 37	4 39	17 6	4 25	5 10
S 28	2 6	16 38	5 13	14 41	3 10	18 10	1 25	22 34	1 21	18 22	0 40	17 50	1 14	23 36	0 16	0 40	1 30	24 9	6 26	4 37	4 38	17 7	4 22	5 10
M29	2 30	14 20	4 51	15 1	3 14	18 33	1 29	22 41	1 21	18 25	0 40	17 51	1 14	23 36	0 16	0 41	1 30	24 9	6 26	4 37	4 37	17 8	4 19	5 10
T 30	2s53	11n17	4s14	15s19	3s18	18s56	1s32	22s49	1s21	18s28	0n40	17s51	1s14	23n36	0n17	0s41	1s30	24n 9	6n26	4s36	4s36	17s 8	4n16	5s10

Julian Day Number = 2341485.5, Delta T = 14.76 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'02, Lahiri = 19°39'02Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

OCTOBER 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 40 43	8♎14'40	1♍41	2♏41	20♏ 1	7♐34	25♏27	13°R54	6♋17	1°R41	9♌21	11°R37	11♎32	5♐29	6♍47	W 1
T 2	0 44 39	9°13'53	14°41	3°11	21°11	8°16	25°38	13♒52	6°18	1♈39	9°22	11♎37	11°29	5°35	6°55	T 2
F 3	0 48 36	10°13'08	27°27	3°37	22°21	8°59	25°49	13°51	6°18	1°38	9°23	11°37	11°26	5°42	7° 2	F 3
S 4	0 52 32	11°12'26	10♎ 0	3°57	23°31	9°42	26° 0	13°49	6°19	1°36	9°24	11°37	11°23	5°49	7°10	S 4
S 5	0 56 29	12°11'45	22°22	4°11	24°40	10°25	26°11	13°48	6°19	1°35	9°25	11°37	11°20	5°55	7°18	S 5
M 6	1 0 25	13°11'07	4♏32	4°R18	25°50	11° 8	26°23	13°47	6°20	1°33	9°26	11°37	11°17	6° 2	7°25	M 6
T 7	1 4 22	14°10'30	16°33	4°18	26°59	11°51	26°34	13°45	6°20	1°31	9°26	11°37	11°13	6° 9	7°33	T 7
W 8	1 8 19	15° 9'55	28°27	4°10	28° 8	12°34	26°46	13°44	6°20	1°30	9°27	11°36	11°10	6°16	7°40	W 8
T 9	1 12 15	16° 9'23	10♐18	3°54	29°18	13°18	26°57	13°43	6°20	1°28	9°28	11°36	11° 7	6°22	7°48	T 9
F 10	1 16 12	17° 8'52	22° 8	3°30	0♐27	14° 1	27° 9	13°43	6°20	1°26	9°29	11°35	11° 4	6°29	7°55	F 10
S 11	1 20 8	18° 8'23	4♑ 3	2°58	1°36	14°45	27°21	13°42	6°20	1°25	9°30	11°35	11° 1	6°36	8° 2	S 11
S 12	1 24 5	19° 7'56	16° 5	2°17	2°45	15°28	27°32	13°41	6°R21	1°23	9°31	11°D34	10°57	6°42	8°10	S 12
M13	1 28 1	20° 7'30	28°20	1°28	3°54	16°12	27°44	13°41	6°20	1°22	9°32	11°34	10°54	6°49	8°17	M13
T 14	1 31 58	21° 7'07	10♒53	0°31	5° 2	16°56	27°56	13°40	6°20	1°20	9°32	11°35	10°51	6°56	8°24	T 14
W15	1 35 54	22° 6'45	23°46	29♎27	6°11	17°39	28° 8	13°40	6°20	1°19	9°33	11°36	10°48	7° 2	8°31	W15
T 16	1 39 51	23° 6'25	7♓ 4	28°18	7°20	18°23	28°20	13°40	6°20	1°17	9°34	11°37	10°45	7° 9	8°38	T 16
F 17	1 43 48	24° 6'06	20°48	27° 5	8°28	19° 7	28°32	13°40	6°20	1°16	9°34	11°38	10°42	7°16	8°45	F 17
S 18	1 47 44	25° 5'49	4♈57	25°50	9°36	19°51	28°45	13°D40	6°19	1°14	9°35	11°R38	10°38	7°22	8°52	S 18
S 19	1 51 41	26° 5'35	19°28	24°35	10°44	20°36	28°57	13°40	6°19	1°13	9°36	11°38	10°35	7°29	8°59	S 19
M20	1 55 37	27° 5'22	4♉16	23°22	11°52	21°20	29° 9	13°40	6°19	1°11	9°36	11°37	10°32	7°36	9° 6	M20
T 21	1 59 34	28° 5'11	19°14	22°14	13° 0	22° 4	29°21	13°40	6°18	1°10	9°37	11°36	10°29	7°43	9°12	T 21
W22	2 3 30	29° 5'03	4♊12	21°13	14° 8	22°48	29°34	13°41	6°18	1° 8	9°37	11°34	10°26	7°49	9°19	W22
T 23	2 7 27	0♏ 4'56	19° 2	20°20	15°15	23°33	29°46	13°41	6°17	1° 7	9°38	11°31	10°23	7°56	9°26	T 23
F 24	2 11 23	1° 4'52	3♋39	19°37	16°23	24°17	29°59	13°42	6°17	1° 5	9°38	11°29	10°19	8° 3	9°32	F 24
S 25	2 15 20	2° 4'50	17°56	19° 5	17°30	25° 2	0♐11	13°42	6°16	1° 4	9°39	11°28	10°16	8° 9	9°39	S 25
S 26	2 19 17	3° 4'50	1♌52	18°44	18°37	25°47	0°24	13°43	6°15	1° 3	9°39	11°D27	10°13	8°16	9°45	S 26
M27	2 23 13	4° 4'53	15°26	18°D35	19°44	26°31	0°37	13°44	6°14	1° 1	9°40	11°28	10°10	8°23	9°51	M27
T 28	2 27 10	5° 4'57	28°40	18°38	20°51	27°16	0°49	13°45	6°13	1° 0	9°40	11°29	10° 7	8°29	9°58	T 28
W29	2 31 6	6° 5'04	11♍36	18°51	21°58	28° 1	1° 2	13°46	6°13	0°59	9°40	11°30	10° 3	8°36	10° 4	W29
T 30	2 35 3	7° 5'13	24°16	19°15	23° 4	28°46	1°15	13°47	6°12	0°57	9°41	11°32	10° 0	8°43	10°10	T 30
F 31	2 38 59	8♏ 5'23	6♎43	19♎48	24♐11	29♐31	1♐28	13♒49	6♋11	0♈56	9♌41	11°R33	9♎57	8♐50	10♍16	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	3s16	7n43	3s24	15s34	3s21	19s19	1s36	22s56	1s21	18s31	0n40	17s52	1s14	23n36	0n17	0s42	1s30	24n 9	6n27	4s36	4s34	17s 9	4n14	5s10
T 2	3 40	3 49	2 24	15 47	3 24	19 41	1 40	23 4	1 22	18 33	0 39	17 52	1 14	23 36	0 17	0 43	1 30	24 9	6 27	4 36	4 33	17 10	4 11	5 11
F 3	4 3	0s11	1 18	15 58	3 26	20 3	1 43	23 11	1 22	18 36	0 39	17 53	1 14	23 36	0 17	0 43	1 30	24 9	6 27	4 36	4 32	17 10	4 8	5 11
S 4	4 26	4 6	0 9	16 6	3 27	20 24	1 47	23 17	1 22	18 39	0 39	17 53	1 14	23 36	0 17	0 44	1 30	24 9	6 27	4 36	4 31	17 11	4 5	5 11
S 5	4 50	7 48	0n59	16 10	3 27	20 45	1 50	23 24	1 22	18 42	0 39	17 53	1 14	23 36	0 17	0 45	1 30	24 9	6 28	4 36	4 29	17 12	4 2	5 11
M 6	5 13	11 6	2 4	16 12	3 26	21 5	1 53	23 30	1 22	18 45	0 39	17 54	1 14	23 36	0 17	0 45	1 30	24 9	6 28	4 36	4 28	17 12	3 59	5 11
T 7	5 36	13 54	3 2	16 10	3 24	21 25	1 57	23 36	1 23	18 47	0 39	17 54	1 14	23 36	0 17	0 46	1 30	24 8	6 28	4 36	4 27	17 13	3 56	5 11
W 8	5 59	16 5	3 52	16 4	3 20	21 44	2 0	23 42	1 23	18 50	0 39	17 54	1 14	23 36	0 17	0 46	1 30	24 8	6 28	4 36	4 26	17 13	3 53	5 11
T 9	6 22	17 33	4 31	15 54	3 15	22 2	2 4	23 48	1 23	18 53	0 38	17 54	1 14	23 36	0 17	0 47	1 30	24 8	6 28	4 36	4 24	17 14	3 50	5 12
F 10	6 45	18 16	4 59	15 39	3 9	22 21	2 7	23 54	1 23	18 56	0 38	17 55	1 14	23 36	0 17	0 48	1 30	24 8	6 29	4 35	4 23	17 15	3 47	5 12
S 11	7 7	18 11	5 14	15 20	3 0	22 38	2 10	23 59	1 23	18 59	0 38	17 55	1 14	23 36	0 17	0 48	1 30	24 8	6 29	4 35	4 22	17 15	3 45	5 12
S 12	7 30	17 16	5 16	14 57	2 50	22 55	2 13	24 4	1 23	19 1	0 38	17 55	1 14	23 36	0 17	0 49	1 30	24 8	6 29	4 35	4 21	17 16	3 42	5 12
M13	7 53	15 34	5 4	14 29	2 39	23 12	2 16	24 9	1 24	19 4	0 38	17 55	1 14	23 36	0 17	0 50	1 30	24 8	6 29	4 35	4 19	17 17	3 39	5 12
T 14	8 15	13 5	4 37	13 56	2 25	23 27	2 19	24 13	1 24	19 7	0 38	17 55	1 14	23 36	0 17	0 50	1 30	24 8	6 30	4 35	4 18	17 17	3 36	5 12
W15	8 37	9 55	3 55	13 19	2 10	23 43	2 22	24 18	1 24	19 10	0 38	17 55	1 13	23 36	0 17	0 51	1 30	24 9	6 30	4 36	4 17	17 18	3 33	5 13
T 16	9 0	6 8	3 0	12 38	1 52	23 57	2 25	24 22	1 24	19 13	0 37	17 55	1 13	23 36	0 17	0 51	1 30	24 9	6 30	4 36	4 16	17 18	3 30	5 13
F 17	9 22	1 55	1 53	11 55	1 34	24 11	2 28	24 26	1 24	19 16	0 37	17 55	1 13	23 36	0 17	0 52	1 30	24 9	6 30	4 36	4 14	17 19	3 28	5 13
S 18	9 44	2n32	0 37	11 9	1 14	24 25	2 31	24 29	1 24	19 18	0 37	17 55	1 13	23 36	0 17	0 53	1 30	24 9	6 31	4 37	4 13	17 20	3 25	5 13
S 19	10 5	6 58	0s43	10 22	0 54	24 38	2 34	24 33	1 24	19 21	0 37	17 55	1 13	23 36	0 17	0 53	1 29	24 9	6 31	4 37	4 12	17 20	3 22	5 13
M20	10 27	11 3	2 2	9 36	0 33	24 50	2 37	24 36	1 24	19 24	0 37	17 55	1 13	23 36	0 17	0 54	1 29	24 9	6 31	4 36	4 11	17 21	3 19	5 14
T 21	10 49	14 28	3 13	8 52	0 13	25 1	2 39	24 39	1 24	19 27	0 37	17 55	1 13	23 37	0 17	0 54	1 29	24 9	6 31	4 36	4 9	17 21	3 17	5 14
W22	11 10	16 54	4 11	8 10	0n 7	25 12	2 42	24 41	1 24	19 30	0 37	17 55	1 13	23 37	0 17	0 55	1 29	24 9	6 32	4 35	4 8	17 22	3 14	5 14
T 23	11 31	18 11	4 52	7 33	0 27	25 23	2 44	24 44	1 25	19 32	0 37	17 55	1 13	23 37	0 17	0 55	1 29	24 9	6 32	4 34	4 7	17 22	3 11	5 14
F 24	11 52	18 13	5 13	7 0	0 45	25 32	2 47	24 46	1 25	19 35	0 36	17 54	1 13	23 37	0 17	0 56	1 29	24 9	6 32	4 33	4 6	17 23	3 9	5 15
S 25	12 13	17 6	5 13	6 32	1 1	25 41	2 49	24 47	1 25	19 38	0 36	17 54	1 13	23 37	0 17	0 56	1 29	24 9	6 32	4 32	4 4	17 24	3 6	5 15
S 26	12 34	14 58	4 56	6 11	1 16	25 50	2 51	24 49	1 25	19 41	0 36	17 54	1 13	23 37	0 17	0 57	1 29	24 9	6 33	4 32	4 3	17 24	3 3	5 15
M27	12 54	12 4	4 22	5 55	1 29	25 57	2 53	24 50	1 25	19 43	0 36	17 54	1 13	23 37	0 17	0 58	1 29	24 10	6 33	4 32	4 2	17 25	3 1	5 16
T 28	13 14	8 36	3 35	5 46	1 41	26 4	2 55	24 51	1 25	19 46	0 36	17 53	1 13	23 37	0 17	0 58	1 29	24 10	6 33	4 33	4 1	17 25	2 58	5 16
W29	13 34	4 48	2 37	5 42	1 50	26 11	2 57	24 52	1 25	19 49	0 36	17 53	1 13	23 37	0 17	0 59	1 29	24 10	6 33	4 33	3 59	17 26	2 56	5 16
T 30	13 54	0 51	1 34	5 43	1 58	26 16	2 59	24 53	1 25	19 52	0 36	17 52	1 13	23 37	0 17	0 59	1 29	24 10	6 34	4 34	3 58	17 26	2 53	5 16
F 31	14s14	3s 5	0s27	5s50	2n 4	26s21	3s 0	24s53	1s25	19s54	0n36	17s52	1s13	23n37	0n17	0s59	1s29	24n10	6n34	4s34	3s57	17s27	2n51	5s17

Julian Day Number = 2341515.5, Delta T = 14.73 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'06, Lahiri = 19°39'07Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

NOVEMBER 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 42 56	9♏ 5'36	18♎59	20♎29	25♐17	0♑16	1♐41	13♒50	6°R10	0°R55	9♌41	11°R33	9♎54	8♐56	10♍22	S 1
S 2	2 46 52	10° 5'51	1♏ 7	21°19	26°23	1° 1	1°54	13°52	6♋ 9	0♈54	9°42	11♎31	9°51	9° 3	10°28	S 2
M 3	2 50 49	11° 6'07	13° 8	22°15	27°28	1°46	2° 7	13°53	6° 7	0°53	9°42	11°28	9°48	9°10	10°33	M 3
T 4	2 54 46	12° 6'26	25° 3	23°17	28°34	2°32	2°20	13°55	6° 6	0°51	9°42	11°23	9°44	9°16	10°39	T 4
W 5	2 58 42	13° 6'46	6♐55	24°24	29°39	3°17	2°33	13°57	6° 5	0°50	9°42	11°18	9°41	9°23	10°45	W 5
T 6	3 2 39	14° 7'07	18°45	25°36	0♑44	4° 2	2°46	13°59	6° 4	0°49	9°42	11°11	9°38	9°30	10°50	T 6
F 7	3 6 35	15° 7'30	0♑36	26°52	1°49	4°48	2°59	14° 1	6° 2	0°48	9°42	11° 5	9°35	9°37	10°56	F 7
S 8	3 10 32	16° 7'55	12°30	28°11	2°54	5°33	3°12	14° 3	6° 1	0°47	9°42	11° 0	9°32	9°43	11° 1	S 8
S 9	3 14 28	17° 8'21	24°32	29°33	3°58	6°19	3°25	14° 5	6° 0	0°46	9°42	10°56	9°28	9°50	11° 7	S 9
M10	3 18 25	18° 8'49	6♒43	0♏57	5° 3	7° 4	3°38	14° 7	5°58	0°45	9°R42	10°53	9°25	9°57	11°12	M10
T 11	3 22 21	19° 9'18	19°10	2°23	6° 6	7°50	3°52	14°10	5°57	0°44	9°42	10°D53	9°22	10° 3	11°17	T 11
W12	3 26 18	20° 9'48	1♓56	3°51	7°10	8°36	4° 5	14°12	5°55	0°43	9°42	10°53	9°19	10°10	11°22	W12
T 13	3 30 15	21°10'19	15° 6	5°20	8°13	9°22	4°18	14°15	5°54	0°42	9°42	10°55	9°16	10°17	11°27	T 13
F 14	3 34 11	22°10'52	28°43	6°50	9°16	10° 7	4°32	14°17	5°52	0°41	9°42	10°56	9°13	10°23	11°32	F 14
S 15	3 38 8	23°11'26	12♈48	8°21	10°19	10°53	4°45	14°20	5°50	0°40	9°42	10°R57	9° 9	10°30	11°36	S 15
S 16	3 42 4	24°12'01	27°21	9°53	11°21	11°39	4°58	14°23	5°49	0°39	9°42	10°55	9° 6	10°37	11°41	S 16
M17	3 46 1	25°12'38	12♉17	11°26	12°24	12°25	5°12	14°26	5°47	0°39	9°42	10°52	9° 3	10°44	11°46	M17
T 18	3 49 57	26°13'16	27°29	12°59	13°25	13°11	5°25	14°29	5°45	0°38	9°42	10°47	9° 0	10°50	11°50	T 18
W19	3 53 54	27°13'55	12♊47	14°32	14°27	13°57	5°38	14°32	5°43	0°37	9°41	10°40	8°57	10°57	11°55	W19
T 20	3 57 50	28°14'36	28° 0	16° 5	15°28	14°43	5°52	14°35	5°41	0°36	9°41	10°33	8°54	11° 4	11°59	T 20
F 21	4 1 47	29°15'18	12♋58	17°39	16°28	15°29	6° 5	14°39	5°39	0°36	9°41	10°26	8°50	11°10	12° 3	F 21
S 22	4 5 44	0♐16'02	27°32	19°13	17°28	16°15	6°19	14°42	5°37	0°35	9°40	10°20	8°47	11°17	12° 7	S 22
S 23	4 9 40	1°16'48	11♌39	20°47	18°28	17° 2	6°32	14°46	5°36	0°34	9°40	10°16	8°44	11°24	12°11	S 23
M24	4 13 37	2°17'35	25°18	22°21	19°28	17°48	6°46	14°49	5°34	0°34	9°40	10°14	8°41	11°31	12°15	M24
T 25	4 17 33	3°18'24	8♍30	23°55	20°27	18°34	6°59	14°53	5°31	0°33	9°39	10°D14	8°38	11°37	12°19	T 25
W26	4 21 30	4°19'14	21°19	25°29	21°25	19°21	7°13	14°57	5°29	0°33	9°39	10°15	8°34	11°44	12°22	W26
T 27	4 25 26	5°20'05	3♎49	27° 3	22°23	20° 7	7°26	15° 1	5°27	0°32	9°39	10°R15	8°31	11°51	12°26	T 27
F 28	4 29 23	6°20'58	16° 4	28°37	23°21	20°53	7°40	15° 5	5°25	0°32	9°38	10°15	8°28	11°57	12°29	F 28
S 29	4 33 19	7°21'52	28° 9	0♐11	24°18	21°40	7°53	15° 9	5°23	0°31	9°38	10°14	8°25	12° 4	12°33	S 29
S 30	4 37 16	8♐22'48	10♏ 6	1♐45	25♑14	22♑26	8♐ 7	15♒13	5♋21	0♈31	9♌37	10♎ 9	8♎22	12♐11	12♍36	S 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
S 1	14s33	6s49	0n41	6s 1	2n 9	26s25	3s 2	24s53	1s25	19s57	0n35	17s52	1s13	23n37	0n17	1s 0	1s29	24n10	6n34	4s34	3s56	17s28	2n48	5s17
S 2	14 52	10 14	1 45	6 17	2 12	26 29	3 4	24 53	1 25	20 0	0 35	17 51	1 13	23 37	0 17	1 0	1 29	24 10	6 34	4 34	3 54	17 28	2 46	5 17
M 3	15 11	13 11	2 44	6 36	2 14	26 32	3 5	24 52	1 25	20 2	0 35	17 51	1 13	23 37	0 17	1 1	1 29	24 11	6 35	4 33	3 53	17 29	2 43	5 18
T 4	15 30	15 34	3 36	6 58	2 15	26 34	3 6	24 52	1 24	20 5	0 35	17 50	1 12	23 37	0 17	1 1	1 29	24 11	6 35	4 31	3 52	17 29	2 41	5 18
W 5	15 48	17 16	4 17	7 23	2 15	26 36	3 7	24 50	1 24	20 8	0 35	17 49	1 12	23 37	0 17	1 2	1 29	24 11	6 35	4 28	3 51	17 30	2 38	5 18
T 6	16 6	18 13	4 48	7 50	2 14	26 37	3 8	24 49	1 24	20 10	0 35	17 49	1 12	23 38	0 17	1 2	1 29	24 11	6 35	4 26	3 49	17 30	2 36	5 19
F 7	16 24	18 22	5 6	8 19	2 12	26 37	3 9	24 48	1 24	20 13	0 35	17 48	1 12	23 38	0 17	1 3	1 29	24 11	6 36	4 24	3 48	17 31	2 33	5 19
S 8	16 41	17 43	5 11	8 50	2 9	26 36	3 10	24 46	1 24	20 16	0 35	17 47	1 12	23 38	0 17	1 3	1 29	24 12	6 36	4 22	3 47	17 31	2 31	5 19
S 9	16 59	16 17	5 3	9 22	2 6	26 35	3 11	24 43	1 24	20 18	0 35	17 47	1 12	23 38	0 17	1 3	1 29	24 12	6 36	4 20	3 46	17 32	2 29	5 20
M10	17 16	14 6	4 40	9 55	2 2	26 34	3 11	24 41	1 24	20 21	0 34	17 46	1 12	23 38	0 17	1 4	1 29	24 12	6 36	4 19	3 44	17 32	2 27	5 20
T 11	17 32	11 13	4 5	10 29	1 58	26 31	3 11	24 38	1 24	20 23	0 34	17 45	1 12	23 38	0 17	1 4	1 29	24 12	6 37	4 19	3 43	17 33	2 24	5 20
W12	17 49	7 45	3 16	11 3	1 53	26 28	3 12	24 35	1 24	20 26	0 34	17 45	1 12	23 38	0 18	1 4	1 29	24 13	6 37	4 19	3 42	17 33	2 22	5 21
T 13	18 5	3 47	2 16	11 38	1 47	26 24	3 12	24 32	1 24	20 29	0 34	17 44	1 12	23 38	0 18	1 5	1 29	24 13	6 37	4 19	3 41	17 34	2 20	5 21
F 14	18 21	0n30	1 6	12 13	1 42	26 20	3 12	24 29	1 23	20 31	0 34	17 43	1 12	23 38	0 18	1 5	1 29	24 13	6 37	4 20	3 39	17 35	2 18	5 21
S 15	18 36	4 55	0s10	12 48	1 36	26 15	3 11	24 25	1 23	20 34	0 34	17 42	1 12	23 38	0 18	1 5	1 29	24 13	6 38	4 20	3 38	17 35	2 16	5 22
S 16	18 51	9 11	1 28	13 23	1 30	26 10	3 11	24 21	1 23	20 36	0 34	17 41	1 12	23 38	0 18	1 6	1 29	24 14	6 38	4 20	3 37	17 36	2 13	5 22
M17	19 6	12 59	2 41	13 58	1 23	26 3	3 10	24 16	1 23	20 39	0 34	17 40	1 12	23 39	0 18	1 6	1 29	24 14	6 38	4 19	3 36	17 36	2 11	5 22
T 18	19 20	15 59	3 45	14 32	1 17	25 57	3 10	24 12	1 23	20 41	0 34	17 39	1 12	23 39	0 18	1 6	1 29	24 14	6 38	4 16	3 34	17 37	2 9	5 23
W19	19 34	17 52	4 32	15 6	1 10	25 49	3 9	24 7	1 23	20 44	0 34	17 38	1 12	23 39	0 18	1 7	1 29	24 15	6 39	4 14	3 33	17 37	2 7	5 23
T 20	19 48	18 27	5 0	15 40	1 3	25 41	3 8	24 2	1 22	20 46	0 34	17 37	1 12	23 39	0 18	1 7	1 29	24 15	6 39	4 11	3 32	17 38	2 5	5 24
F 21	20 1	17 45	5 7	16 13	0 57	25 33	3 7	23 56	1 22	20 48	0 33	17 36	1 12	23 39	0 18	1 7	1 29	24 15	6 39	4 8	3 31	17 38	2 3	5 24
S 22	20 14	15 53	4 54	16 46	0 50	25 23	3 5	23 51	1 22	20 51	0 33	17 35	1 12	23 39	0 18	1 7	1 29	24 16	6 39	4 6	3 29	17 39	2 2	5 24
S 23	20 27	13 6	4 23	17 17	0 43	25 14	3 4	23 45	1 22	20 53	0 33	17 34	1 12	23 39	0 18	1 7	1 28	24 16	6 40	4 4	3 28	17 39	2 0	5 25
M24	20 39	9 41	3 38	17 49	0 36	25 4	3 2	23 38	1 22	20 56	0 33	17 33	1 11	23 39	0 18	1 8	1 28	24 16	6 40	4 3	3 27	17 40	1 58	5 25
T 25	20 51	5 53	2 42	18 19	0 29	24 53	3 0	23 32	1 21	20 58	0 33	17 32	1 11	23 39	0 18	1 8	1 28	24 17	6 40	4 3	3 26	17 40	1 56	5 26
W26	21 2	1 55	1 40	18 49	0 22	24 42	2 58	23 25	1 21	21 0	0 33	17 31	1 11	23 39	0 18	1 8	1 28	24 17	6 40	4 4	3 24	17 40	1 54	5 26
T 27	21 13	2s 3	0 35	19 17	0 15	24 30	2 55	23 18	1 21	21 3	0 33	17 30	1 11	23 40	0 18	1 8	1 28	24 17	6 41	4 4	3 23	17 41	1 52	5 26
F 28	21 24	5 51	0n31	19 45	0 8	24 18	2 53	23 11	1 21	21 5	0 33	17 28	1 11	23 40	0 18	1 8	1 28	24 18	6 41	4 4	3 22	17 41	1 51	5 27
S 29	21 34	9 22	1 34	20 12	0 1	24 5	2 50	23 3	1 20	21 7	0 33	17 27	1 11	23 40	0 18	1 8	1 28	24 18	6 41	4 3	3 21	17 42	1 49	5 27
S 30	21s44	12s27	2n33	20s38	0s 6	23s52	2s47	22s55	1s20	21s 9	0n33	17s26	1s11	23n40	0n18	1s 9	1s28	24n18	6n41	4s 2	3s19	17s42	1n48	5s28

Julian Day Number = 2341546.5, Delta T = 14.70 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'10, Lahiri = 19°39'11Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1698
geocentric

DECEMBER 1698 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 41 13	9♐23'45	22♏ 0	3♐19	26♑10	23♑13	8♐20	15♒17	5°R18	0°R31	9°R36	10°R 2	8♎19	12♐17	12♍39	M 1
T 2	4 45 9	10°24'43	3♐51	4°53	27° 6	23°59	8°34	15°21	5♋16	0♈30	9♌36	9♎52	8°15	12°24	12°42	T 2
W 3	4 49 6	11°25'42	15°42	6°27	28° 0	24°46	8°47	15°26	5°14	0°30	9°35	9°41	8°12	12°31	12°45	W 3
T 4	4 53 2	12°26'41	27°34	8° 1	28°54	25°33	9° 1	15°30	5°12	0°30	9°35	9°28	8° 9	12°38	12°48	T 4
F 5	4 56 59	13°27'42	9♑29	9°35	29°48	26°19	9°14	15°34	5° 9	0°29	9°34	9°15	8° 6	12°44	12°51	F 5
S 6	5 0 55	14°28'44	21°27	11° 9	0♒41	27° 6	9°28	15°39	5° 7	0°29	9°33	9° 3	8° 3	12°51	12°53	S 6
S 7	5 4 52	15°29'46	3♒32	12°43	1°33	27°53	9°41	15°44	5° 5	0°29	9°33	8°53	8° 0	12°58	12°56	S 7
M 8	5 8 48	16°30'48	15°46	14°17	2°24	28°40	9°55	15°48	5° 2	0°29	9°32	8°46	7°56	13° 4	12°58	M 8
T 9	5 12 45	17°31'52	28°11	15°52	3°15	29°26	10° 8	15°53	5° 0	0°29	9°31	8°42	7°53	13°11	13° 0	T 9
W10	5 16 42	18°32'55	10♓53	17°26	4° 5	0♒13	10°22	15°58	4°57	0°29	9°30	8°40	7°50	13°18	13° 2	W10
T 11	5 20 38	19°33'59	23°54	19° 1	4°54	1° 0	10°35	16° 3	4°55	0°D29	9°30	8°D40	7°47	13°25	13° 4	T 11
F 12	5 24 35	20°35'04	7♈20	20°35	5°42	1°47	10°49	16° 8	4°52	0°29	9°29	8°R40	7°44	13°31	13° 6	F 12
S 13	5 28 31	21°36'09	21°12	22°10	6°30	2°34	11° 2	16°13	4°50	0°29	9°28	8°40	7°40	13°38	13° 8	S 13
S 14	5 32 28	22°37'14	5♉32	23°45	7°16	3°21	11°15	16°18	4°47	0°29	9°27	8°38	7°37	13°45	13°10	S 14
M15	5 36 24	23°38'19	20°18	25°20	8° 1	4° 7	11°29	16°24	4°45	0°29	9°26	8°32	7°34	13°51	13°11	M15
T 16	5 40 21	24°39'25	5♊26	26°55	8°45	4°54	11°42	16°29	4°42	0°29	9°25	8°24	7°31	13°58	13°13	T 16
W17	5 44 17	25°40'31	20°45	28°30	9°29	5°41	11°56	16°34	4°40	0°29	9°24	8°14	7°28	14° 5	13°14	W17
T 18	5 48 14	26°41'38	6♋ 5	0♉ 6	10°11	6°28	12° 9	16°40	4°37	0°29	9°23	8° 3	7°25	14°12	13°15	T 18
F 19	5 52 11	27°42'45	21°14	1°42	10°52	7°15	12°22	16°45	4°35	0°30	9°22	7°52	7°21	14°18	13°16	F 19
S 20	5 56 7	28°43'53	6♌ 2	3°18	11°32	8° 2	12°36	16°51	4°32	0°30	9°21	7°42	7°18	14°25	13°17	S 20
S 21	6 0 4	29°45'01	20°22	4°54	12°10	8°49	12°49	16°56	4°29	0°30	9°20	7°34	7°15	14°32	13°18	S 21
M22	6 4 0	0♉46'10	4♍11	6°31	12°47	9°36	13° 2	17° 2	4°27	0°31	9°19	7°30	7°12	14°38	13°19	M22
T 23	6 7 57	1°47'19	17°31	8° 7	13°23	10°23	13°15	17° 8	4°24	0°31	9°18	7°28	7° 9	14°45	13°19	T 23
W24	6 11 53	2°48'29	0♎23	9°44	13°58	11°10	13°28	17°14	4°22	0°32	9°17	7°27	7° 6	14°52	13°20	W24
T 25	6 15 50	3°49'39	12°53	11°22	14°31	11°57	13°42	17°20	4°19	0°32	9°16	7°27	7° 2	14°59	13°20	T 25
F 26	6 19 46	4°50'49	25° 6	12°59	15° 3	12°44	13°55	17°25	4°16	0°32	9°15	7°26	6°59	15° 5	13°20	F 26
S 27	6 23 43	5°52'00	7♏ 6	14°36	15°33	13°31	14° 8	17°31	4°14	0°33	9°14	7°23	6°56	15°12	13°R20	S 27
S 28	6 27 40	6°53'11	18°59	16°14	16° 1	14°18	14°21	17°37	4°11	0°34	9°13	7°18	6°53	15°19	13°20	S 28
M29	6 31 36	7°54'23	0♐49	17°52	16°28	15° 6	14°34	17°44	4° 9	0°34	9°12	7°10	6°50	15°25	13°20	M29
T 30	6 35 33	8°55'35	12°39	19°30	16°53	15°53	14°47	17°50	4° 6	0°35	9°10	6°58	6°46	15°32	13°20	T 30
W31	6 39 29	9♑56'46	24♐31	21♑ 8	17♒16	16♒40	15♐ 0	17♒56	4♋ 4	0♈35	9♌ 9	6♎44	6♎43	15♐39	13♍20	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	21s54	15s 1	3n24	21s 3	0s13	23s38	2s44	22s47	1s20	21s12	0n33	17s25	1s11	23n40	0n18	1s 9	1s28	24n19	6n42	3s59	3s18	17s43	1n46	5s28
T 2	22 3	16 56	4 6	21 28	0 19	23 24	2 41	22 39	1 20	21 14	0 33	17 23	1 11	23 40	0 18	1 9	1 28	24 19	6 42	3 55	3 17	17 43	1 44	5 29
W 3	22 11	18 7	4 37	21 51	0 26	23 9	2 37	22 30	1 19	21 16	0 32	17 22	1 11	23 40	0 18	1 9	1 28	24 20	6 42	3 50	3 16	17 44	1 43	5 29
T 4	22 19	18 31	4 56	22 13	0 32	22 54	2 33	22 22	1 19	21 18	0 32	17 21	1 11	23 40	0 18	1 9	1 28	24 20	6 42	3 45	3 14	17 44	1 41	5 29
F 5	22 27	18 7	5 2	22 34	0 39	22 39	2 29	22 12	1 19	21 20	0 32	17 19	1 11	23 40	0 18	1 9	1 28	24 20	6 43	3 40	3 13	17 45	1 40	5 30
S 6	22 34	16 54	4 56	22 53	0 45	22 24	2 25	22 3	1 18	21 22	0 32	17 18	1 11	23 41	0 18	1 9	1 28	24 21	6 43	3 36	3 12	17 45	1 39	5 30
S 7	22 41	14 56	4 35	23 12	0 51	22 8	2 20	21 54	1 18	21 24	0 32	17 16	1 11	23 41	0 18	1 9	1 28	24 21	6 43	3 32	3 11	17 46	1 37	5 31
M 8	22 47	12 17	4 2	23 30	0 57	21 51	2 16	21 44	1 18	21 27	0 32	17 15	1 11	23 41	0 18	1 9	1 28	24 22	6 43	3 29	3 9	17 46	1 36	5 31
T 9	22 53	9 2	3 17	23 46	1 3	21 35	2 11	21 34	1 17	21 29	0 32	17 14	1 11	23 41	0 18	1 9	1 28	24 22	6 43	3 27	3 8	17 46	1 35	5 32
W10	22 59	5 19	2 22	24 1	1 8	21 18	2 6	21 23	1 17	21 31	0 32	17 12	1 11	23 41	0 18	1 9	1 28	24 23	6 44	3 27	3 7	17 47	1 34	5 32
T 11	23 4	1 14	1 18	24 15	1 14	21 1	2 0	21 13	1 17	21 33	0 32	17 11	1 11	23 41	0 18	1 9	1 28	24 23	6 44	3 27	3 5	17 47	1 32	5 32
F 12	23 8	3n 1	0 7	24 27	1 19	20 43	1 54	21 2	1 16	21 35	0 32	17 9	1 11	23 41	0 18	1 9	1 28	24 23	6 44	3 27	3 4	17 48	1 31	5 33
S 13	23 13	7 16	1s 6	24 39	1 24	20 26	1 48	20 51	1 16	21 36	0 32	17 7	1 11	23 41	0 18	1 9	1 28	24 24	6 44	3 26	3 3	17 48	1 30	5 33
S 14	23 16	11 14	2 17	24 49	1 29	20 8	1 42	20 40	1 16	21 38	0 32	17 6	1 11	23 41	0 18	1 9	1 28	24 24	6 45	3 25	3 2	17 49	1 29	5 34
M15	23 19	14 37	3 21	24 57	1 34	19 50	1 36	20 28	1 15	21 40	0 32	17 4	1 11	23 42	0 18	1 9	1 28	24 25	6 45	3 23	3 0	17 49	1 28	5 34
T 16	23 22	17 5	4 13	25 5	1 38	19 31	1 29	20 17	1 15	21 42	0 32	17 3	1 11	23 42	0 18	1 9	1 28	24 25	6 45	3 20	2 59	17 50	1 27	5 35
W17	23 24	18 23	4 47	25 10	1 42	19 13	1 22	20 5	1 15	21 44	0 31	17 1	1 11	23 42	0 18	1 9	1 27	24 26	6 45	3 16	2 58	17 50	1 26	5 35
T 18	23 26	18 20	5 1	25 15	1 46	18 55	1 14	19 53	1 14	21 46	0 31	16 59	1 11	23 42	0 18	1 8	1 27	24 26	6 45	3 12	2 57	17 50	1 25	5 36
F 19	23 27	16 59	4 53	25 18	1 50	18 36	1 7	19 41	1 14	21 48	0 31	16 58	1 11	23 42	0 18	1 8	1 27	24 27	6 46	3 7	2 55	17 51	1 25	5 36
S 20	23 28	14 30	4 25	25 20	1 53	18 17	0 59	19 28	1 13	21 49	0 31	16 56	1 11	23 42	0 18	1 8	1 27	24 27	6 46	3 3	2 54	17 51	1 24	5 36
S 21	23 29	11 13	3 42	25 20	1 57	17 59	0 50	19 15	1 13	21 51	0 31	16 54	1 11	23 42	0 18	1 8	1 27	24 27	6 46	3 1	2 53	17 52	1 23	5 37
M22	23 28	7 24	2 46	25 18	1 59	17 40	0 42	19 2	1 13	21 53	0 31	16 52	1 11	23 42	0 18	1 8	1 27	24 28	6 46	2 59	2 52	17 52	1 23	5 37
T 23	23 28	3 21	1 43	25 15	2 2	17 21	0 33	18 49	1 12	21 55	0 31	16 51	1 11	23 42	0 18	1 8	1 27	24 28	6 46	2 58	2 50	17 52	1 22	5 38
W24	23 27	0s43	0 37	25 11	2 4	17 2	0 24	18 36	1 12	21 56	0 31	16 49	1 11	23 42	0 18	1 7	1 27	24 29	6 47	2 58	2 49	17 53	1 21	5 38
T 25	23 25	4 39	0n29	25 5	2 6	16 44	0 14	18 22	1 11	21 58	0 31	16 47	1 11	23 43	0 18	1 7	1 27	24 29	6 47	2 58	2 48	17 53	1 21	5 39
F 26	23 23	8 18	1 32	24 57	2 7	16 25	0 4	18 9	1 11	22 0	0 31	16 45	1 11	23 43	0 18	1 7	1 27	24 30	6 47	2 57	2 47	17 54	1 20	5 39
S 27	23 21	11 33	2 30	24 48	2 8	16 6	0n 6	17 55	1 10	22 1	0 31	16 43	1 11	23 43	0 18	1 7	1 27	24 30	6 47	2 56	2 45	17 54	1 20	5 39
S 28	23 18	14 17	3 20	24 37	2 9	15 48	0 16	17 41	1 10	22 3	0 31	16 42	1 11	23 43	0 18	1 6	1 27	24 31	6 47	2 54	2 44	17 54	1 20	5 40
M29	23 14	16 24	4 2	24 25	2 9	15 30	0 27	17 26	1 9	22 4	0 31	16 40	1 11	23 43	0 18	1 6	1 27	24 31	6 48	2 51	2 43	17 55	1 19	5 40
T 30	23 10	17 50	4 33	24 11	2 9	15 11	0 38	17 12	1 9	22 6	0 31	16 38	1 11	23 43	0 18	1 6	1 27	24 32	6 48	2 46	2 42	17 55	1 19	5 41
W31	23s 6	18s29	4n53	23s55	2s 8	14s54	0n50	16s57	1s 9	22s 7	0n31	16s36	1s11	23n43	0n18	1s 6	1s27	24n32	6n48	2s41	2s40	17s56	1n19	5s41

Julian Day Number = 2341576.5, Delta T = 14.67 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'15, Lahiri = 19°39'15Greg. Calendar