Astrodienst Ephemeris Tables

for the year 1720

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 1720
geocentric

JANUARY 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 39 8	9♑50'22	14♍ 0	28♑15	24♏50	8♈19	4♎58	22♏ 5	14♎58	17°R55	19°R 6	19♌ 4	20♌34	0♉ 7	13♓ 1	M 1
T 2	6 43 5	10°51'32	27°50	28°38	25°39	8°55	5° 2	22°10	14°59	17♉54	19♍ 5	19° 6	20°30	0°14	13° 3	T 2
W 3	6 47 1	11°52'42	11♎51	28°51	26°29	9°31	5° 5	22°16	15° 0	17°53	19° 5	19°R 6	20°27	0°21	13° 6	W 3
T 4	6 50 58	12°53'52	26° 1	28°R53	27°20	10° 7	5° 8	22°21	15° 0	17°52	19° 5	19° 6	20°24	0°28	13° 8	T 4
F 5	6 54 54	13°55'02	10♏19	28°43	28°12	10°44	5°11	22°27	15° 1	17°51	19° 4	19° 3	20°21	0°34	13°10	F 5
S 6	6 58 51	14°56'12	24°43	28°22	29° 5	11°20	5°14	22°32	15° 2	17°50	19° 4	18°59	20°18	0°41	13°13	S 6
S 7	7 2 47	15°57'22	9♐ 7	27°49	29°58	11°57	5°17	22°37	15° 3	17°50	19° 3	18°54	20°15	0°48	13°15	S 7
M 8	7 6 44	16°58'33	23°27	27° 4	0♐52	12°34	5°19	22°42	15° 4	17°49	19° 3	18°49	20°11	0°54	13°17	M 8
T 9	7 10 40	17°59'43	7♑37	26° 9	1°46	13°10	5°22	22°47	15° 4	17°48	19° 2	18°44	20° 8	1° 1	13°20	T 9
W10	7 14 37	19° 0'53	21°32	25° 5	2°41	13°47	5°24	22°52	15° 5	17°48	19° 2	18°41	20° 5	1° 8	13°22	W10
T 11	7 18 34	20° 2'02	5♒ 8	23°54	3°37	14°24	5°26	22°57	15° 5	17°47	19° 1	18°38	20° 2	1°15	13°25	T 11
F 12	7 22 30	21° 3'11	18°23	22°39	4°34	15° 1	5°28	23° 2	15° 6	17°47	19° 0	18°D38	19°59	1°21	13°28	F 12
S 13	7 26 27	22° 4'19	1♓18	21°20	5°30	15°38	5°29	23° 7	15° 6	17°46	19° 0	18°38	19°55	1°28	13°30	S 13
S 14	7 30 23	23° 5'26	13°52	20° 2	6°28	16°15	5°31	23°12	15° 7	17°45	18°59	18°40	19°52	1°35	13°33	S 14
M15	7 34 20	24° 6'33	26° 9	18°46	7°26	16°52	5°32	23°16	15° 7	17°45	18°58	18°41	19°49	1°41	13°36	M15
T 16	7 38 16	25° 7'39	8♈14	17°34	8°24	17°29	5°33	23°21	15° 7	17°45	18°57	18°43	19°46	1°48	13°38	T 16
W17	7 42 13	26° 8'43	20° 9	16°29	9°23	18° 7	5°33	23°25	15° 7	17°44	18°57	18°44	19°43	1°55	13°41	W17
T 18	7 46 9	27° 9'47	2♉ 1	15°31	10°22	18°44	5°34	23°30	15° 8	17°44	18°56	18°R44	19°40	2° 2	13°44	T 18
F 19	7 50 6	28°10'50	13°55	14°41	11°22	19°21	5°34	23°34	15° 8	17°43	18°55	18°43	19°36	2° 8	13°47	F 19
S 20	7 54 3	29°11'52	25°53	14° 0	12°22	19°58	5°35	23°38	15°R 8	17°43	18°54	18°41	19°33	2°15	13°50	S 20
S 21	7 57 59	0♒12'53	8♊ 2	13°29	13°23	20°36	5°R35	23°43	15° 8	17°43	18°53	18°39	19°30	2°22	13°53	S 21
M22	8 1 56	1°13'54	20°25	13° 7	14°24	21°13	5°35	23°47	15° 8	17°43	18°52	18°36	19°27	2°28	13°56	M22
T 23	8 5 52	2°14'53	3♋ 3	12°53	15°25	21°51	5°34	23°51	15° 7	17°42	18°51	18°33	19°24	2°35	13°59	T 23
W24	8 9 49	3°15'51	15°59	12°D48	16°27	22°28	5°34	23°55	15° 7	17°42	18°50	18°31	19°21	2°42	14° 2	W24
T 25	8 13 45	4°16'48	29°12	12°51	17°29	23° 6	5°33	23°58	15° 7	17°42	18°49	18°29	19°17	2°49	14° 5	T 25
F 26	8 17 42	5°17'44	12♌42	13° 2	18°31	23°43	5°32	24° 2	15° 7	17°42	18°48	18°D29	19°14	2°55	14° 8	F 26
S 27	8 21 38	6°18'39	26°26	13°19	19°34	24°21	5°31	24° 6	15° 6	17°42	18°47	18°29	19°11	3° 2	14°11	S 27
S 28	8 25 35	7°19'33	10♍22	13°42	20°37	24°59	5°30	24° 9	15° 6	17°42	18°46	18°29	19° 8	3° 9	14°14	S 28
M29	8 29 32	8°20'26	24°27	14°12	21°41	25°36	5°28	24°13	15° 5	17°D42	18°45	18°30	19° 5	3°15	14°18	M29
T 30	8 33 28	9°21'18	8♎38	14°46	22°44	26°14	5°26	24°16	15° 5	17°42	18°44	18°31	19° 1	3°22	14°21	T 30
W31	8 37 25	10♒22'10	22♎51	15♑26	23♐48	26♈52	5♎25	24♏20	15♎ 4	17♉42	18♍43	18♌32	18♌58	3♉29	14♓24	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	23s 6	8n19	2n12	20s47	0s15	15s12	3n55	3n24	0n 6	0s46	1n20	16s17	2n 6	5s17	0n40	15n28	1s48	18n18	15n15	15n 8	14n39	7n 1	2s29	4n33
T 2	23 2	3 51	3 15	20 27	0n 1	15 23	3 56	3 39	0 7	0 47	1 20	16 18	2 6	5 17	0 40	15 28	1 48	18 19	15 16	15 7	14 40	7 3	2 28	4 32
W 3	22 57	0s53	4 8	20 7	0 18	15 34	3 56	3 55	0 9	0 48	1 20	16 20	2 6	5 18	0 40	15 27	1 48	18 19	15 16	15 7	14 41	7 5	2 28	4 32
T 4	22 51	5 36	4 47	19 49	0 36	15 45	3 57	4 10	0 10	0 49	1 20	16 21	2 6	5 18	0 40	15 27	1 48	18 20	15 17	15 7	14 42	7 7	2 27	4 32
F 5	22 45	10 4	5 8	19 33	0 55	15 56	3 57	4 26	0 11	0 50	1 21	16 22	2 6	5 18	0 40	15 27	1 48	18 21	15 17	15 8	14 44	7 9	2 26	4 32
S 6	22 38	13 58	5 10	19 19	1 14	16 7	3 57	4 41	0 13	0 51	1 21	16 23	2 7	5 19	0 40	15 27	1 48	18 21	15 18	15 9	14 45	7 11	2 26	4 31
S 7	22 31	17 2	4 52	19 7	1 33	16 18	3 57	4 57	0 14	0 52	1 21	16 25	2 7	5 19	0 40	15 27	1 48	18 22	15 18	15 11	14 46	7 13	2 25	4 31
M 8	22 24	19 2	4 17	18 57	1 52	16 30	3 57	5 12	0 15	0 52	1 22	16 26	2 7	5 19	0 41	15 27	1 48	18 23	15 19	15 12	14 47	7 15	2 24	4 31
T 9	22 16	19 50	3 26	18 49	2 10	16 41	3 56	5 27	0 16	0 53	1 22	16 27	2 7	5 19	0 41	15 26	1 48	18 23	15 19	15 14	14 48	7 17	2 24	4 31
W10	22 7	19 24	2 23	18 44	2 27	16 52	3 56	5 43	0 17	0 54	1 22	16 28	2 7	5 20	0 41	15 26	1 48	18 24	15 20	15 15	14 49	7 19	2 23	4 30
T 11	21 59	17 50	1 13	18 41	2 43	17 4	3 55	5 58	0 19	0 54	1 22	16 29	2 7	5 20	0 41	15 26	1 48	18 25	15 20	15 16	14 50	7 21	2 22	4 30
F 12	21 49	15 19	0 1	18 40	2 57	17 15	3 54	6 14	0 20	0 54	1 23	16 30	2 7	5 20	0 41	15 26	1 48	18 25	15 21	15 16	14 51	7 23	2 22	4 30
S 13	21 40	12 6	1s 9	18 41	3 8	17 26	3 53	6 29	0 21	0 55	1 23	16 31	2 8	5 20	0 41	15 26	1 47	18 26	15 21	15 16	14 52	7 25	2 21	4 29
S 14	21 30	8 25	2 14	18 44	3 17	17 37	3 51	6 44	0 22	0 55	1 23	16 32	2 8	5 20	0 41	15 26	1 47	18 27	15 22	15 15	14 53	7 27	2 20	4 29
M15	21 19	4 28	3 12	18 48	3 24	17 48	3 50	6 59	0 23	0 55	1 23	16 33	2 8	5 20	0 41	15 26	1 47	18 28	15 22	15 15	14 54	7 29	2 19	4 29
T 16	21 8	0 24	4 0	18 53	3 28	17 59	3 48	7 15	0 24	0 55	1 24	16 34	2 8	5 20	0 41	15 26	1 47	18 28	15 23	15 14	14 55	7 31	2 18	4 29
W17	20 57	3n37	4 37	18 59	3 29	18 9	3 47	7 30	0 25	0 56	1 24	16 35	2 8	5 20	0 41	15 26	1 47	18 29	15 23	15 14	14 56	7 33	2 18	4 28
T 18	20 45	7 28	5 2	19 7	3 29	18 20	3 45	7 45	0 26	0 56	1 24	16 36	2 8	5 20	0 41	15 26	1 47	18 30	15 24	15 14	14 57	7 35	2 17	4 28
F 19	20 33	11 2	5 14	19 15	3 26	18 30	3 43	8 0	0 27	0 55	1 25	16 37	2 8	5 20	0 41	15 26	1 47	18 30	15 24	15 14	14 58	7 37	2 16	4 28
S 20	20 21	14 11	5 13	19 24	3 22	18 40	3 40	8 15	0 28	0 55	1 25	16 38	2 9	5 20	0 41	15 26	1 47	18 31	15 24	15 15	14 59	7 39	2 15	4 28
S 21	20 8	16 47	4 57	19 33	3 16	18 50	3 38	8 30	0 29	0 55	1 25	16 39	2 9	5 20	0 41	15 26	1 47	18 32	15 25	15 16	15 0	7 41	2 14	4 28
M22	19 55	18 40	4 28	19 42	3 8	18 59	3 36	8 45	0 30	0 55	1 25	16 40	2 9	5 20	0 41	15 26	1 47	18 33	15 25	15 16	15 1	7 43	2 13	4 27
T 23	19 41	19 41	3 45	19 52	3 0	19 8	3 33	9 0	0 31	0 54	1 26	16 41	2 9	5 20	0 41	15 26	1 47	18 33	15 26	15 17	15 2	7 45	2 12	4 27
W24	19 27	19 42	2 50	20 1	2 51	19 17	3 31	9 15	0 32	0 54	1 26	16 41	2 9	5 20	0 41	15 26	1 47	18 34	15 26	15 18	15 3	7 47	2 11	4 27
T 25	19 13	18 38	1 45	20 11	2 41	19 26	3 28	9 30	0 33	0 53	1 26	16 42	2 9	5 20	0 41	15 26	1 47	18 35	15 27	15 18	15 4	7 49	2 10	4 27
F 26	18 58	16 31	0 32	20 20	2 31	19 34	3 25	9 45	0 34	0 53	1 26	16 43	2 10	5 20	0 41	15 26	1 47	18 36	15 27	15 19	15 5	7 51	2 9	4 26
S 27	18 43	13 25	0n44	20 29	2 20	19 42	3 22	9 59	0 35	0 52	1 27	16 44	2 10	5 20	0 41	15 26	1 47	18 37	15 27	15 19	15 5	7 53	2 8	4 26
S 28	18 28	9 31	1 58	20 37	2 10	19 50	3 19	10 14	0 35	0 51	1 27	16 44	2 10	5 19	0 41	15 26	1 47	18 37	15 28	15 18	15 6	7 56	2 7	4 26
M29	18 12	5 3	3 6	20 45	1 59	19 57	3 16	10 29	0 36	0 50	1 27	16 45	2 10	5 19	0 41	15 26	1 46	18 38	15 28	15 18	15 7	7 58	2 6	4 26
T 30	17 56	0 18	4 3	20 52	1 48	20 4	3 13	10 43	0 37	0 49	1 28	16 46	2 10	5 19	0 41	15 26	1 46	18 39	15 29	15 18	15 8	8 0	2 5	4 26
W31	17s40	4s28	4n46	20s59	1n37	20s11	3n 9	10n58	0n38	0s49	1n28	16s46	2n10	5s19	0n41	15n26	1s46	18n40	15n29	15n18	15n 9	8n 2	2s 4	4n25

Julian Day Number = 2349276.5, Delta T = 10.48 sec
Ecliptic obliquity = 23°28'25, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°49'53, Lahiri = 19°56'54Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

FEBRUARY 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 41 21	11♒23'01	7♏ 4	16♑10	24♐53	27♈30	5°R23	24♏23	15°R 4	17♉42	18°R41	18°R32	18♌55	3♉36	14♓28	T 1
F 2	8 45 18	12°23'50	21°14	16°58	25°57	28° 7	5♎20	24°26	15♎ 3	17°42	18♍40	18♌32	18°52	3°42	14°31	F 2
S 3	8 49 14	13°24'39	5♐20	17°49	27° 2	28°45	5°18	24°29	15° 2	17°42	18°39	18°32	18°49	3°49	14°34	S 3
S 4	8 53 11	14°25'28	19°19	18°44	28° 7	29°23	5°15	24°32	15° 1	17°43	18°38	18°31	18°46	3°56	14°38	S 4
M 5	8 57 7	15°26'15	3♑10	19°42	29°12	0♉ 1	5°12	24°35	15° 1	17°43	18°36	18°31	18°42	4° 2	14°41	M 5
T 6	9 1 4	16°27'01	16°50	20°43	0♑18	0°39	5° 9	24°38	15° 0	17°43	18°35	18°31	18°39	4° 9	14°44	T 6
W 7	9 5 1	17°27'46	0♒18	21°46	1°24	1°17	5° 6	24°41	14°59	17°43	18°34	18°30	18°36	4°16	14°48	W 7
T 8	9 8 57	18°28'29	13°31	22°52	2°30	1°55	5° 3	24°43	14°58	17°44	18°33	18°30	18°33	4°23	14°51	T 8
F 9	9 12 54	19°29'11	26°30	24° 0	3°36	2°33	4°59	24°46	14°57	17°44	18°31	18°30	18°30	4°29	14°55	F 9
S 10	9 16 50	20°29'52	9♓13	25°10	4°42	3°11	4°56	24°48	14°56	17°45	18°30	18°30	18°27	4°36	14°58	S 10
S 11	9 20 47	21°30'31	21°42	26°21	5°49	3°49	4°52	24°50	14°54	17°45	18°28	18°30	18°23	4°43	15° 2	S 11
M12	9 24 43	22°31'09	3♈57	27°35	6°55	4°27	4°48	24°53	14°53	17°45	18°27	18°30	18°20	4°50	15° 6	M12
T 13	9 28 40	23°31'45	16° 1	28°50	8° 2	5° 5	4°44	24°55	14°52	17°46	18°26	18°29	18°17	4°56	15° 9	T 13
W14	9 32 36	24°32'19	27°57	0♒ 7	9° 9	5°43	4°39	24°57	14°51	17°47	18°24	18°28	18°14	5° 3	15°13	W14
T 15	9 36 33	25°32'51	9♉50	1°25	10°17	6°21	4°35	24°59	14°49	17°47	18°23	18°28	18°11	5°10	15°16	T 15
F 16	9 40 30	26°33'22	21°43	2°45	11°24	6°59	4°30	25° 0	14°48	17°48	18°21	18°D27	18° 7	5°16	15°20	F 16
S 17	9 44 26	27°33'50	3♊40	4° 6	12°32	7°37	4°25	25° 2	14°46	17°48	18°20	18°27	18° 4	5°23	15°24	S 17
S 18	9 48 23	28°34'17	15°48	5°29	13°39	8°15	4°20	25° 4	14°45	17°49	18°18	18°28	18° 1	5°30	15°27	S 18
M19	9 52 19	29°34'42	28° 9	6°52	14°47	8°53	4°15	25° 5	14°43	17°50	18°17	18°29	17°58	5°37	15°31	M19
T 20	9 56 16	0♓35'05	10♋49	8°17	15°55	9°32	4°10	25° 7	14°42	17°51	18°15	18°30	17°55	5°43	15°35	T 20
W21	10 0 12	1°35'27	23°50	9°43	17° 3	10°10	4° 4	25° 8	14°40	17°51	18°14	18°31	17°52	5°50	15°38	W21
T 22	10 4 9	2°35'46	7♌14	11°11	18°12	10°48	3°59	25° 9	14°39	17°52	18°12	18°32	17°48	5°57	15°42	T 22
F 23	10 8 5	3°36'03	21° 0	12°39	19°20	11°26	3°53	25°10	14°37	17°53	18°11	18°R32	17°45	6° 3	15°46	F 23
S 24	10 12 2	4°36'19	5♍ 8	14° 9	20°29	12° 4	3°47	25°11	14°35	17°54	18° 9	18°31	17°42	6°10	15°50	S 24
S 25	10 15 59	5°36'33	19°32	15°39	21°37	12°42	3°41	25°12	14°33	17°55	18° 8	18°30	17°39	6°17	15°53	S 25
M26	10 19 55	6°36'45	4♎ 7	17°11	22°46	13°21	3°35	25°13	14°32	17°56	18° 6	18°28	17°36	6°24	15°57	M26
T 27	10 23 52	7°36'55	18°46	18°44	23°55	13°59	3°29	25°14	14°30	17°57	18° 5	18°25	17°32	6°30	16° 1	T 27
W28	10 27 48	8°37'04	3♏24	20°17	25° 4	14°37	3°22	25°14	14°28	17°58	18° 3	18°23	17°29	6°37	16° 5	W28
T 29	10 31 45	9♓37'11	17♏53	21♒52	26♑13	15♉15	3♎16	25♏15	14♎26	17♉59	18♍ 1	18♌21	17♌26	6♉44	16♓ 8	T 29

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	17s23	9s 0	5n11	21s 5	1n26	20s17	3n 6	11n12	0n39	0s47	1n28	16s47	2n11	5s18	0n41	15n26	1s46	18n41	15n29	15n18	15n10	8n 4	2s 3	4n25
F 2	17 6	13 0	5 17	21 10	1 15	20 22	3 2	11 26	0 40	0 46	1 28	16 48	2 11	5 18	0 41	15 26	1 46	18 41	15 30	15 18	15 11	8 6	2 2	4 25
S 3	16 49	16 15	5 4	21 14	1 4	20 28	2 59	11 41	0 40	0 45	1 29	16 48	2 11	5 18	0 41	15 26	1 46	18 42	15 30	15 18	15 12	8 8	2 1	4 25
S 4	16 32	18 31	4 33	21 17	0 53	20 32	2 55	11 55	0 41	0 44	1 29	16 49	2 11	5 17	0 41	15 26	1 46	18 43	15 30	15 18	15 13	8 10	2 0	4 25
M 5	16 14	19 40	3 46	21 19	0 43	20 37	2 52	12 9	0 42	0 43	1 29	16 49	2 11	5 17	0 41	15 27	1 46	18 44	15 31	15 18	15 14	8 12	1 58	4 24
T 6	15 56	19 39	2 47	21 20	0 33	20 40	2 48	12 23	0 43	0 41	1 29	16 50	2 11	5 17	0 41	15 27	1 46	18 45	15 31	15 18	15 15	8 14	1 57	4 24
W 7	15 37	18 30	1 39	21 20	0 23	20 44	2 44	12 37	0 43	0 40	1 30	16 50	2 12	5 16	0 41	15 27	1 46	18 45	15 31	15 18	15 16	8 16	1 56	4 24
T 8	15 19	16 21	0 28	21 19	0 13	20 47	2 40	12 51	0 44	0 38	1 30	16 51	2 12	5 16	0 41	15 27	1 46	18 46	15 32	15 18	15 17	8 18	1 55	4 24
F 9	15 0	13 24	0s44	21 17	0 4	20 49	2 36	13 4	0 45	0 36	1 30	16 51	2 12	5 15	0 42	15 27	1 46	18 47	15 32	15 18	15 18	8 20	1 54	4 24
S 10	14 41	9 52	1 52	21 13	0s 5	20 51	2 32	13 18	0 45	0 35	1 30	16 51	2 12	5 15	0 42	15 27	1 46	18 48	15 32	15 18	15 19	8 22	1 52	4 24
S 11	14 21	5 58	2 54	21 9	0 14	20 52	2 28	13 32	0 46	0 33	1 31	16 52	2 12	5 15	0 42	15 27	1 46	18 49	15 33	15 18	15 20	8 24	1 51	4 23
M12	14 2	1 53	3 46	21 3	0 23	20 53	2 24	13 45	0 47	0 31	1 31	16 52	2 13	5 14	0 42	15 28	1 46	18 50	15 33	15 18	15 21	8 26	1 50	4 23
T 13	13 42	2n11	4 28	20 56	0 31	20 54	2 20	13 59	0 47	0 29	1 31	16 52	2 13	5 14	0 42	15 28	1 45	18 50	15 33	15 19	15 22	8 28	1 49	4 23
W14	13 22	6 8	4 57	20 48	0 39	20 54	2 16	14 12	0 48	0 27	1 31	16 53	2 13	5 13	0 42	15 28	1 45	18 51	15 33	15 19	15 23	8 30	1 48	4 23
T 15	13 1	9 49	5 13	20 38	0 47	20 53	2 12	14 25	0 49	0 25	1 32	16 53	2 13	5 12	0 42	15 28	1 45	18 52	15 34	15 19	15 24	8 32	1 46	4 23
F 16	12 41	13 7	5 16	20 28	0 55	20 52	2 8	14 39	0 49	0 23	1 32	16 53	2 13	5 12	0 42	15 29	1 45	18 53	15 34	15 19	15 25	8 34	1 45	4 23
S 17	12 20	15 55	5 6	20 16	1 2	20 50	2 4	14 52	0 50	0 21	1 32	16 53	2 14	5 11	0 42	15 29	1 45	18 54	15 34	15 19	15 26	8 36	1 44	4 23
S 18	11 59	18 3	4 42	20 2	1 9	20 47	1 59	15 5	0 51	0 19	1 32	16 54	2 14	5 11	0 42	15 29	1 45	18 54	15 34	15 19	15 27	8 38	1 42	4 22
M19	11 38	19 24	4 4	19 48	1 15	20 45	1 55	15 17	0 51	0 17	1 32	16 54	2 14	5 10	0 42	15 29	1 45	18 55	15 35	15 19	15 28	8 40	1 41	4 22
T 20	11 17	19 49	3 14	19 32	1 21	20 41	1 51	15 30	0 52	0 14	1 33	16 54	2 14	5 10	0 42	15 30	1 45	18 56	15 35	15 18	15 29	8 42	1 40	4 22
W21	10 55	19 12	2 13	19 15	1 27	20 37	1 47	15 43	0 52	0 12	1 33	16 54	2 14	5 9	0 42	15 30	1 45	18 57	15 35	15 18	15 30	8 44	1 39	4 22
T 22	10 34	17 29	1 2	18 56	1 33	20 33	1 42	15 55	0 53	0 10	1 33	16 54	2 15	5 8	0 42	15 30	1 45	18 58	15 35	15 18	15 31	8 46	1 37	4 22
F 23	10 12	14 44	0n14	18 36	1 38	20 28	1 38	16 8	0 53	0 7	1 33	16 54	2 15	5 8	0 42	15 30	1 45	18 58	15 36	15 18	15 32	8 48	1 36	4 22
S 24	9 50	11 3	1 30	18 15	1 43	20 22	1 34	16 20	0 54	0 5	1 33	16 54	2 15	5 7	0 42	15 31	1 45	18 59	15 36	15 18	15 33	8 50	1 35	4 22
S 25	9 28	6 39	2 43	17 53	1 47	20 16	1 30	16 32	0 55	0 2	1 34	16 54	2 15	5 6	0 42	15 31	1 45	19 0	15 36	15 18	15 34	8 52	1 33	4 22
M26	9 6	1 49	3 46	17 29	1 52	20 9	1 25	16 45	0 55	0n 0	1 34	16 54	2 15	5 5	0 42	15 31	1 45	19 1	15 36	15 19	15 35	8 54	1 32	4 21
T 27	8 43	3s 8	4 34	17 4	1 55	20 2	1 21	16 56	0 56	0 3	1 34	16 54	2 15	5 5	0 42	15 32	1 45	19 2	15 36	15 20	15 36	8 56	1 30	4 21
W28	8 21	7 53	5 4	16 37	1 59	19 54	1 17	17 8	0 56	0 6	1 34	16 54	2 16	5 4	0 42	15 32	1 45	19 2	15 36	15 20	15 37	8 58	1 29	4 21
T 29	7s58	12s 8	5n15	16s 9	2s 2	19s45	1n12	17n20	0n57	0n 8	1n34	16s54	2n16	5s 3	0n42	15n32	1s45	19n 3	15n36	15n21	15n38	9n 0	1s28	4n21

Julian Day Number = 2349307.5, Delta T = 10.48 sec
Ecliptic obliquity = 23°28'25, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°49'58, Lahiri = 19°56'58Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

MARCH 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 35 41	10♓37'17	2♐10	23♒28	27♑23	15♉53	3°R 9	25♏15	14°R24	18♉ 0	18°R 0	18°R20	17♌23	6♉50	16♓12	F 1
S 2	10 39 38	11°37'22	16°12	25° 6	28°32	16°32	3♎ 2	25°15	14♎22	18° 1	17♍58	18°D19	17°20	6°57	16°16	S 2
S 3	10 43 34	12°37'24	29°59	26°44	29°42	17°10	2°56	25°16	14°20	18° 2	17°57	18♌20	17°17	7° 4	16°20	S 3
M 4	10 47 31	13°37'25	13♑30	28°23	0♒51	17°48	2°49	25°R16	14°18	18° 3	17°55	18°22	17°13	7°11	16°24	M 4
T 5	10 51 28	14°37'25	26°46	0♓ 4	2° 1	18°26	2°42	25°16	14°16	18° 5	17°53	18°23	17°10	7°17	16°27	T 5
W 6	10 55 24	15°37'23	9♒48	1°45	3°11	19° 4	2°35	25°16	14°14	18° 6	17°52	18°24	17° 7	7°24	16°31	W 6
T 7	10 59 21	16°37'19	22°38	3°28	4°20	19°43	2°28	25°15	14°11	18° 7	17°50	18°R25	17° 4	7°31	16°35	T 7
F 8	11 3 17	17°37'13	5♓16	5°12	5°30	20°21	2°20	25°15	14° 9	18° 8	17°49	18°23	17° 1	7°38	16°39	F 8
S 9	11 7 14	18°37'05	17°43	6°57	6°40	20°59	2°13	25°15	14° 7	18°10	17°47	18°21	16°58	7°44	16°43	S 9
S 10	11 11 10	19°36'55	0♈ 0	8°43	7°50	21°37	2° 6	25°14	14° 5	18°11	17°45	18°16	16°54	7°51	16°46	S 10
M11	11 15 7	20°36'43	12° 9	10°30	9° 1	22°16	1°58	25°14	14° 2	18°12	17°44	18°11	16°51	7°58	16°50	M11
T 12	11 19 3	21°36'29	24° 9	12°19	10°11	22°54	1°51	25°13	14° 0	18°14	17°42	18° 5	16°48	8° 4	16°54	T 12
W13	11 23 0	22°36'13	6♉ 4	14° 9	11°21	23°32	1°43	25°12	13°58	18°15	17°40	17°58	16°45	8°11	16°58	W13
T 14	11 26 56	23°35'55	17°56	16° 0	12°32	24°10	1°36	25°11	13°55	18°17	17°39	17°53	16°42	8°18	17° 2	T 14
F 15	11 30 53	24°35'34	29°48	17°52	13°42	24°49	1°28	25°10	13°53	18°18	17°37	17°48	16°38	8°25	17° 5	F 15
S 16	11 34 50	25°35'12	11♊44	19°46	14°53	25°27	1°20	25° 9	13°51	18°20	17°36	17°46	16°35	8°31	17° 9	S 16
S 17	11 38 46	26°34'47	23°48	21°40	16° 3	26° 5	1°13	25° 8	13°48	18°21	17°34	17°D44	16°32	8°38	17°13	S 17
M18	11 42 43	27°34'20	6♋ 6	23°36	17°14	26°43	1° 5	25° 6	13°46	18°23	17°32	17°45	16°29	8°45	17°17	M18
T 19	11 46 39	28°33'50	18°41	25°33	18°24	27°22	0°57	25° 5	13°43	18°24	17°31	17°46	16°26	8°51	17°20	T 19
W20	11 50 36	29°33'18	1♌39	27°31	19°35	28° 0	0°49	25° 3	13°41	18°26	17°29	17°47	16°23	8°58	17°24	W20
T 21	11 54 32	0♈32'44	15° 3	29°30	20°46	28°38	0°42	25° 2	13°38	18°27	17°28	17°R48	16°19	9° 5	17°28	T 21
F 22	11 58 29	1°32'08	28°54	1♈30	21°57	29°16	0°34	25° 0	13°36	18°29	17°26	17°48	16°16	9°12	17°32	F 22
S 23	12 2 25	2°31'29	13♍12	3°31	23° 8	29°54	0°26	24°58	13°33	18°31	17°25	17°45	16°13	9°18	17°35	S 23
S 24	12 6 22	3°30'48	27°53	5°33	24°19	0♊33	0°18	24°57	13°31	18°32	17°23	17°41	16°10	9°25	17°39	S 24
M25	12 10 19	4°30'05	12♎51	7°36	25°30	1°11	0°11	24°55	13°28	18°34	17°22	17°35	16° 7	9°32	17°43	M25
T 26	12 14 15	5°29'20	27°57	9°39	26°41	1°49	0° 3	24°53	13°26	18°36	17°20	17°27	16° 4	9°39	17°46	T 26
W27	12 18 12	6°28'33	13♏ 0	11°42	27°52	2°27	29♍55	24°50	13°23	18°38	17°19	17°20	16° 0	9°45	17°50	W27
T 28	12 22 8	7°27'44	27°52	13°45	29° 3	3° 5	29°48	24°48	13°21	18°39	17°17	17°14	15°57	9°52	17°54	T 28
F 29	12 26 5	8°26'53	12♐25	15°48	0♓14	3°44	29°40	24°46	13°18	18°41	17°16	17° 9	15°54	9°59	17°57	F 29
S 30	12 30 1	9°26'01	26°36	17°51	1°26	4°22	29°32	24°43	13°16	18°43	17°14	17° 6	15°51	10° 5	18° 1	S 30
S 31	12 33 58	10♈25'07	10♑23	19♈53	2♓37	5♊ 0	29♍25	24♏41	13♎13	18♉45	17♍13	17°D 5	15♌48	10♉12	18♓ 4	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	7s36	15s38	5n 6	15s40	2s 4	19s36	1n 8	17n32	0n57	0n11	1n34	16s54	2n16	5s 2	0n42	15n33	1s44	19n 4	15n37	15n21	15n39	9n 2	1s26	4n21
S 2	7 13	18 8	4 39	15 10	2 7	19 27	1 4	17 43	0 58	0 14	1 35	16 54	2 16	5 2	0 42	15 33	1 44	19 5	15 37	15 22	15 40	9 4	1 25	4 21
S 3	6 50	19 33	3 56	14 38	2 8	19 16	1 0	17 55	0 58	0 17	1 35	16 54	2 16	5 1	0 42	15 33	1 44	19 5	15 37	15 21	15 41	9 6	1 24	4 21
M 4	6 27	19 48	3 0	14 5	2 10	19 6	0 55	18 6	0 58	0 20	1 35	16 54	2 17	5 0	0 42	15 34	1 44	19 6	15 37	15 21	15 42	9 8	1 22	4 21
T 5	6 4	18 56	1 56	13 30	2 11	18 55	0 51	18 17	0 59	0 23	1 35	16 54	2 17	4 59	0 42	15 34	1 44	19 7	15 37	15 20	15 43	9 10	1 21	4 21
W 6	5 41	17 4	0 47	12 55	2 11	18 43	0 47	18 28	0 59	0 26	1 35	16 53	2 17	4 58	0 42	15 35	1 44	19 7	15 37	15 20	15 44	9 12	1 19	4 21
T 7	5 17	14 21	0s23	12 18	2 12	18 31	0 43	18 39	1 0	0 29	1 35	16 53	2 17	4 57	0 42	15 35	1 44	19 8	15 37	15 20	15 45	9 14	1 18	4 21
F 8	4 54	11 0	1 31	11 39	2 11	18 18	0 39	18 50	1 0	0 32	1 35	16 53	2 17	4 57	0 42	15 35	1 44	19 9	15 37	15 20	15 46	9 16	1 17	4 21
S 9	4 31	7 13	2 34	11 0	2 10	18 5	0 34	19 0	1 1	0 35	1 35	16 53	2 18	4 56	0 42	15 36	1 44	19 10	15 37	15 21	15 47	9 18	1 15	4 21
S 10	4 7	3 10	3 28	10 19	2 9	17 51	0 30	19 11	1 1	0 38	1 35	16 52	2 18	4 55	0 42	15 36	1 44	19 10	15 37	15 22	15 47	9 20	1 14	4 21
M11	3 44	0n56	4 12	9 36	2 8	17 36	0 26	19 21	1 1	0 41	1 36	16 52	2 18	4 54	0 42	15 37	1 44	19 11	15 37	15 24	15 48	9 22	1 12	4 20
T 12	3 20	4 58	4 44	8 53	2 5	17 22	0 22	19 31	1 2	0 44	1 36	16 52	2 18	4 53	0 42	15 37	1 44	19 12	15 37	15 26	15 49	9 24	1 11	4 20
W13	2 56	8 46	5 4	8 8	2 3	17 6	0 18	19 41	1 2	0 47	1 36	16 51	2 18	4 52	0 42	15 38	1 44	19 12	15 37	15 28	15 50	9 26	1 9	4 20
T 14	2 33	12 13	5 11	7 22	1 59	16 50	0 14	19 51	1 3	0 50	1 36	16 51	2 18	4 51	0 42	15 38	1 44	19 13	15 37	15 30	15 51	9 28	1 8	4 20
F 15	2 9	15 11	5 4	6 35	1 56	16 34	0 10	20 1	1 3	0 53	1 36	16 50	2 19	4 50	0 42	15 38	1 44	19 14	15 37	15 31	15 52	9 30	1 7	4 20
S 16	1 45	17 32	4 44	5 46	1 52	16 17	0 7	20 11	1 3	0 56	1 36	16 50	2 19	4 49	0 42	15 39	1 44	19 14	15 37	15 32	15 53	9 32	1 5	4 20
S 17	1 22	19 8	4 12	4 57	1 47	16 0	0 3	20 20	1 4	0 59	1 36	16 50	2 19	4 48	0 42	15 39	1 44	19 15	15 37	15 32	15 54	9 34	1 4	4 20
M18	0 58	19 53	3 27	4 6	1 42	15 43	0s 1	20 29	1 4	1 2	1 36	16 49	2 19	4 47	0 42	15 40	1 44	19 15	15 37	15 32	15 55	9 36	1 2	4 20
T 19	0 34	19 40	2 31	3 14	1 36	15 24	0 5	20 39	1 4	1 5	1 36	16 49	2 19	4 46	0 42	15 40	1 44	19 16	15 37	15 32	15 56	9 38	1 1	4 20
W20	0 11	18 25	1 27	2 21	1 29	15 6	0 8	20 48	1 5	1 9	1 36	16 48	2 19	4 45	0 42	15 41	1 43	19 17	15 37	15 31	15 57	9 40	0 59	4 20
T 21	0n13	16 6	0 15	1 28	1 23	14 47	0 12	20 56	1 5	1 12	1 36	16 48	2 20	4 45	0 42	15 41	1 43	19 17	15 37	15 31	15 58	9 42	0 58	4 20
F 22	0 37	12 48	1n 0	0 33	1 15	14 27	0 16	21 5	1 5	1 15	1 36	16 47	2 20	4 44	0 42	15 42	1 43	19 18	15 37	15 31	15 59	9 44	0 56	4 20
S 23	1 0	8 39	2 13	0n23	1 7	14 8	0 19	21 14	1 6	1 18	1 36	16 46	2 20	4 43	0 42	15 42	1 43	19 18	15 37	15 32	16 0	9 46	0 55	4 20
S 24	1 24	3 53	3 19	1 19	0 59	13 47	0 22	21 22	1 6	1 21	1 36	16 46	2 20	4 42	0 42	15 43	1 43	19 19	15 37	15 33	16 1	9 48	0 54	4 20
M25	1 47	1s12	4 13	2 15	0 50	13 27	0 26	21 30	1 6	1 24	1 36	16 45	2 20	4 41	0 42	15 43	1 43	19 19	15 37	15 35	16 2	9 50	0 52	4 20
T 26	2 11	6 15	4 50	3 12	0 40	13 6	0 29	21 38	1 7	1 27	1 36	16 45	2 20	4 40	0 42	15 44	1 43	19 20	15 37	15 37	16 3	9 52	0 51	4 20
W27	2 35	10 54	5 6	4 10	0 31	12 44	0 32	21 46	1 7	1 30	1 36	16 44	2 21	4 39	0 42	15 44	1 43	19 20	15 37	15 40	16 4	9 54	0 49	4 20
T 28	2 58	14 48	5 2	5 7	0 20	12 23	0 36	21 54	1 7	1 33	1 36	16 43	2 21	4 38	0 42	15 45	1 43	19 21	15 37	15 42	16 5	9 56	0 48	4 20
F 29	3 21	17 43	4 38	6 5	0 10	12 1	0 39	22 2	1 7	1 36	1 36	16 43	2 21	4 37	0 42	15 45	1 43	19 21	15 37	15 43	16 6	9 58	0 46	4 20
S 30	3 45	19 28	3 57	7 2	0n 1	11 38	0 42	22 9	1 8	1 39	1 36	16 42	2 21	4 36	0 42	15 46	1 43	19 22	15 36	15 44	16 7	10 0	0 45	4 20
S 31	4n 8	20s 0	3n 4	7n58	0n12	11s15	0s45	22n17	1n 8	1n42	1n36	16s41	2n21	4s35	0n42	15n46	1s43	19n22	15n36	15n44	16n 8	10n 2	0s44	4n20

Julian Day Number = 2349336.5, Delta T = 10.48 sec
Ecliptic obliquity = 23°28'26, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'02, Lahiri = 19°57'02Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

APRIL 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 37 54	11♈24'11	23♉48	21♈53	3♓48	5♊38	29°R17	24°R38	13°R10	18♉47	17°R11	17♌ 6	15♌44	10♉19	18♓ 8	M 1
T 2	12 41 51	12°23'14	6♒52	23°52	5° 0	6°16	29♍10	24♏36	13♎ 8	18°49	17♍10	17° 7	15°41	10°26	18°11	T 2
W 3	12 45 48	13°22'15	19°38	25°50	6°11	6°54	29° 3	24°33	13° 5	18°50	17° 8	17°R 7	15°38	10°32	18°15	W 3
T 4	12 49 44	14°21'13	2♓11	27°45	7°23	7°33	28°55	24°30	13° 3	18°52	17° 7	17° 6	15°35	10°39	18°18	T 4
F 5	12 53 41	15°20'10	14°32	29°38	8°34	8°11	28°48	24°27	13° 0	18°54	17° 6	17° 2	15°32	10°46	18°22	F 5
S 6	12 57 37	16°19'05	26°45	1♉27	9°46	8°49	28°41	24°24	12°58	18°56	17° 4	16°56	15°29	10°52	18°25	S 6
S 7	13 1 34	17°17'58	8♈50	3°14	10°57	9°27	28°34	24°21	12°55	18°58	17° 3	16°48	15°25	10°59	18°29	S 7
M 8	13 5 30	18°16'49	20°50	4°56	12° 9	10° 5	28°27	24°18	12°52	19° 0	17° 1	16°37	15°22	11° 6	18°32	M 8
T 9	13 9 27	19°15'38	2♉45	6°35	13°21	10°43	28°20	24°15	12°50	19° 2	17° 0	16°25	15°19	11°13	18°36	T 9
W10	13 13 23	20°14'25	14°38	8°10	14°32	11°21	28°13	24°12	12°47	19° 4	16°59	16°13	15°16	11°19	18°39	W10
T 11	13 17 20	21°13'10	26°29	9°40	15°44	11°59	28° 7	24° 8	12°45	19° 6	16°58	16° 1	15°13	11°26	18°42	T 11
F 12	13 21 16	22°11'53	8♊22	11° 6	16°56	12°38	28° 0	24° 5	12°42	19° 8	16°56	15°52	15° 9	11°33	18°46	F 12
S 13	13 25 13	23°10'34	20°18	12°27	18° 8	13°16	27°54	24° 1	12°40	19°10	16°55	15°44	15° 6	11°40	18°49	S 13
S 14	13 29 10	24° 9'13	2♋21	13°43	19°19	13°54	27°47	23°58	12°37	19°12	16°54	15°40	15° 3	11°46	18°52	S 14
M15	13 33 6	25° 7'49	14°36	14°54	20°31	14°32	27°41	23°54	12°35	19°15	16°53	15°37	15° 0	11°53	18°55	M15
T 16	13 37 3	26° 6'23	27° 8	15°59	21°43	15°10	27°35	23°51	12°32	19°17	16°51	15°D37	14°57	12° 0	18°59	T 16
W17	13 40 59	27° 4'55	10♌ 0	17° 0	22°55	15°48	27°29	23°47	12°30	19°19	16°50	15°R37	14°54	12° 6	19° 2	W17
T 18	13 44 56	28° 3'25	23°17	17°54	24° 7	16°26	27°23	23°43	12°27	19°21	16°49	15°37	14°50	12°13	19° 5	T 18
F 19	13 48 52	29° 1'52	7♍ 3	18°44	25°19	17° 4	27°17	23°39	12°25	19°23	16°48	15°35	14°47	12°20	19° 8	F 19
S 20	13 52 49	0♉ 0'18	21°19	19°27	26°31	17°42	27°12	23°36	12°22	19°25	16°47	15°32	14°44	12°27	19°11	S 20
S 21	13 56 45	0°58'41	6♎ 2	20° 6	27°43	18°20	27° 6	23°32	12°20	19°27	16°46	15°25	14°41	12°33	19°14	S 21
M22	14 0 42	1°57'02	21° 6	20°38	28°55	18°58	27° 1	23°28	12°18	19°29	16°45	15°16	14°38	12°40	19°17	M22
T 23	14 4 39	2°55'21	6♏24	21° 5	0♈ 7	19°36	26°56	23°24	12°15	19°32	16°44	15° 6	14°35	12°47	19°20	T 23
W24	14 8 35	3°53'39	21°43	21°26	1°19	20°14	26°51	23°20	12°13	19°34	16°43	14°55	14°31	12°53	19°23	W24
T 25	14 12 32	4°51'55	6♐53	21°41	2°31	20°52	26°46	23°15	12°11	19°36	16°42	14°46	14°28	13° 0	19°26	T 25
F 26	14 16 28	5°50'09	21°43	21°51	3°43	21°30	26°41	23°11	12° 8	19°38	16°41	14°38	14°25	13° 7	19°29	F 26
S 27	14 20 25	6°48'22	6♑ 7	21°R55	4°55	22° 8	26°37	23° 7	12° 6	19°40	16°40	14°33	14°22	13°14	19°32	S 27
S 28	14 24 21	7°46'33	20° 3	21°54	6° 7	22°46	26°32	23° 3	12° 4	19°43	16°39	14°30	14°19	13°20	19°34	S 28
M29	14 28 18	8°44'43	3♒31	21°48	7°19	23°24	26°28	22°59	12° 1	19°45	16°38	14°29	14°15	13°27	19°37	M29
T 30	14 32 14	9♉42'52	16♒34	21♉37	8♈31	24♊ 2	26♍24	22♏54	11♎59	19♉47	16♍38	14♌29	14♌12	13♉34	19♓40	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	4n31	19s22	2n 2	8n54	0n24	10s52	0s48	22n24	1n 8	1n45	1n36	16s40	2n21	4s34	0n42	15n47	1s43	19n23	15n36	15n44	16n 8	10n 4	0s42	4n20
T 2	4 54	17 42	0 55	9 49	0 35	10 29	0 51	22 31	1 8	1 48	1 36	16 40	2 21	4 33	0 42	15 48	1 43	19 23	15 36	15 44	16 9	10 6	0 41	4 20
W 3	5 17	15 10	0s14	10 43	0 47	10 5	0 54	22 37	1 9	1 51	1 36	16 39	2 22	4 32	0 42	15 48	1 43	19 24	15 36	15 44	16 10	10 8	0 39	4 20
T 4	5 40	11 57	1 20	11 36	0 58	9 41	0 56	22 44	1 9	1 54	1 36	16 38	2 22	4 31	0 42	15 49	1 43	19 24	15 36	15 44	16 11	10 10	0 38	4 20
F 5	6 3	8 16	2 21	12 26	1 9	9 17	0 59	22 50	1 9	1 56	1 36	16 37	2 22	4 30	0 42	15 49	1 43	19 24	15 36	15 45	16 12	10 12	0 37	4 21
S 6	6 26	4 17	3 15	13 15	1 21	8 52	1 2	22 57	1 9	1 59	1 36	16 36	2 22	4 29	0 42	15 50	1 43	19 25	15 35	15 47	16 13	10 14	0 35	4 21
S 7	6 48	0 10	4 0	14 2	1 31	8 27	1 4	23 3	1 10	2 2	1 36	16 35	2 22	4 28	0 42	15 50	1 43	19 25	15 35	15 50	16 14	10 16	0 34	4 21
M 8	7 11	3n55	4 33	14 47	1 42	8 2	1 7	23 9	1 10	2 5	1 35	16 35	2 22	4 27	0 42	15 51	1 43	19 25	15 35	15 53	16 15	10 18	0 32	4 21
T 9	7 33	7 50	4 54	15 30	1 52	7 37	1 9	23 14	1 10	2 7	1 35	16 34	2 22	4 26	0 42	15 52	1 43	19 26	15 35	15 56	16 16	10 20	0 31	4 21
W10	7 55	11 26	5 2	16 10	2 1	7 11	1 11	23 20	1 10	2 10	1 35	16 33	2 22	4 25	0 42	15 52	1 43	19 26	15 35	16 0	16 17	10 22	0 30	4 21
T 11	8 17	14 34	4 58	16 47	2 10	6 46	1 13	23 25	1 10	2 12	1 35	16 32	2 22	4 24	0 42	15 53	1 43	19 26	15 34	16 3	16 18	10 24	0 28	4 21
F 12	8 39	17 7	4 40	17 22	2 18	6 20	1 16	23 31	1 11	2 15	1 35	16 31	2 23	4 23	0 42	15 53	1 43	19 27	15 34	16 6	16 19	10 26	0 27	4 21
S 13	9 1	18 58	4 10	17 54	2 26	5 54	1 18	23 36	1 11	2 17	1 35	16 30	2 23	4 22	0 42	15 54	1 43	19 27	15 34	16 8	16 20	10 28	0 26	4 21
S 14	9 23	19 59	3 28	18 24	2 32	5 27	1 20	23 40	1 11	2 20	1 35	16 29	2 23	4 21	0 42	15 54	1 43	19 27	15 34	16 10	16 21	10 30	0 24	4 21
M15	9 44	20 4	2 37	18 51	2 38	5 1	1 22	23 45	1 11	2 22	1 35	16 28	2 23	4 20	0 42	15 55	1 43	19 27	15 33	16 11	16 22	10 32	0 23	4 21
T 16	10 6	19 11	1 37	19 14	2 43	4 34	1 23	23 50	1 11	2 24	1 35	16 27	2 23	4 19	0 42	15 56	1 42	19 28	15 33	16 11	16 23	10 34	0 22	4 21
W17	10 27	17 17	0 30	19 36	2 47	4 7	1 25	23 54	1 11	2 27	1 34	16 26	2 23	4 18	0 42	15 56	1 42	19 28	15 33	16 11	16 23	10 36	0 20	4 21
T 18	10 48	14 25	0n41	19 54	2 49	3 40	1 27	23 58	1 12	2 29	1 34	16 25	2 23	4 17	0 42	15 57	1 42	19 28	15 33	16 11	16 24	10 38	0 19	4 21
F 19	11 9	10 39	1 51	20 10	2 51	3 13	1 28	24 2	1 12	2 31	1 34	16 24	2 23	4 16	0 42	15 57	1 42	19 28	15 32	16 11	16 25	10 40	0 18	4 22
S 20	11 29	6 10	2 57	20 22	2 52	2 46	1 30	24 6	1 12	2 33	1 34	16 23	2 23	4 15	0 42	15 58	1 42	19 29	15 32	16 12	16 26	10 42	0 16	4 22
S 21	11 50	1 10	3 53	20 32	2 51	2 19	1 31	24 9	1 12	2 35	1 34	16 22	2 23	4 14	0 42	15 59	1 42	19 29	15 32	16 14	16 27	10 44	0 15	4 22
M22	12 10	4s 0	4 35	20 40	2 50	1 51	1 33	24 13	1 12	2 37	1 34	16 21	2 23	4 13	0 42	15 59	1 42	19 29	15 31	16 17	16 28	10 45	0 14	4 22
T 23	12 30	8 59	4 57	20 44	2 47	1 24	1 34	24 16	1 12	2 39	1 33	16 20	2 23	4 12	0 42	16 0	1 42	19 29	15 31	16 20	16 29	10 47	0 13	4 22
W24	12 50	13 25	4 59	20 46	2 43	0 56	1 35	24 19	1 12	2 41	1 33	16 19	2 23	4 11	0 42	16 0	1 42	19 29	15 31	16 23	16 30	10 49	0 11	4 22
T 25	13 10	16 54	4 39	20 45	2 37	0 28	1 36	24 22	1 13	2 43	1 33	16 18	2 23	4 11	0 42	16 1	1 42	19 29	15 31	16 26	16 31	10 51	0 10	4 22
F 26	13 29	19 13	4 1	20 41	2 31	0 1	1 37	24 25	1 13	2 44	1 33	16 17	2 24	4 10	0 42	16 2	1 42	19 29	15 30	16 28	16 32	10 53	0 9	4 22
S 27	13 48	20 12	3 8	20 35	2 23	0n27	1 38	24 27	1 13	2 46	1 33	16 16	2 24	4 9	0 42	16 2	1 42	19 29	15 30	16 30	16 33	10 55	0 8	4 22
S 28	14 7	19 54	2 5	20 26	2 14	0 55	1 39	24 29	1 13	2 48	1 32	16 15	2 24	4 8	0 42	16 3	1 42	19 29	15 30	16 30	16 34	10 57	0 7	4 22
M29	14 26	18 28	0 58	20 14	2 4	1 23	1 40	24 32	1 13	2 49	1 32	16 14	2 24	4 7	0 42	16 3	1 42	19 29	15 29	16 31	16 35	10 59	0 5	4 23
T 30	14n45	16s 4	0s11	20n 0	1n52	1n51	1s41	24n33	1n13	2n51	1n32	16s13	2n24	4s 6	0n42	16n 4	1s42	19n29	15n29	16n31	16n35	11n 1	0s 4	4n23

Julian Day Number = 2349367.5, Delta T = 10.48 sec
Ecliptic obliquity = 23°28'26, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'06, Lahiri = 19°57'06Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

MAY 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 36 11	10♉40'58	29♒15	21°R21	9♈43	24♊40	26°R20	22°R50	11°R57	19♉49	16°R37	14°R29	14♌ 9	13♉41	19♓43	W 1
T 2	14 40 8	11°39'04	11♓40	21♉ 1	10°56	25°18	26♍16	22♏46	11♐55	19°51	16♍36	14♌27	14° 6	13°47	19°45	T 2
F 3	14 44 4	12°37'08	23°52	20°37	12° 8	25°56	26°13	22°41	11°53	19°54	16°35	14°22	14° 3	13°54	19°48	F 3
S 4	14 48 1	13°35'10	5♈55	20°10	13°20	26°34	26° 9	22°37	11°51	19°56	16°34	14°15	14° 0	14° 1	19°50	S 4
S 5	14 51 57	14°33'11	17°53	19°40	14°32	27°12	26° 6	22°33	11°49	19°58	16°34	14° 5	13°56	14° 7	19°53	S 5
M 6	14 55 54	15°31'11	29°47	19° 7	15°45	27°50	26° 3	22°28	11°47	20° 0	16°33	13°52	13°53	14°14	19°56	M 6
T 7	14 59 50	16°29'09	11♉39	18°33	16°57	28°28	26° 0	22°24	11°45	20° 3	16°32	13°38	13°50	14°21	19°58	T 7
W 8	15 3 47	17°27'06	23°31	17°58	18° 9	29° 5	25°57	22°19	11°43	20° 5	16°32	13°24	13°47	14°28	20° 0	W 8
T 9	15 7 43	18°25'01	5♊24	17°22	19°22	29°43	25°55	22°15	11°41	20° 7	16°31	13°11	13°44	14°34	20° 3	T 9
F 10	15 11 40	19°22'54	17°20	16°46	20°34	0♋21	25°52	22°10	11°39	20° 9	16°31	12°59	13°41	14°41	20° 5	F 10
S 11	15 15 37	20°20'46	29°20	16°11	21°46	0°59	25°50	22° 6	11°37	20°12	16°30	12°50	13°37	14°48	20° 7	S 11
S 12	15 19 33	21°18'36	11♋28	15°37	22°59	1°37	25°48	22° 1	11°35	20°14	16°30	12°44	13°34	14°55	20°10	S 12
M13	15 23 30	22°16'25	23°46	15° 5	24°11	2°15	25°46	21°57	11°34	20°16	16°29	12°41	13°31	15° 1	20°12	M13
T 14	15 27 26	23°14'12	6♌18	14°36	25°24	2°53	25°45	21°52	11°32	20°18	16°29	12°40	13°28	15° 8	20°14	T 14
W15	15 31 23	24°11'57	19° 8	14° 9	26°36	3°31	25°43	21°48	11°30	20°21	16°28	12°40	13°25	15°15	20°16	W15
T 16	15 35 19	25° 9'40	2♍20	13°46	27°48	4° 9	25°42	21°43	11°29	20°23	16°28	12°40	13°21	15°21	20°18	T 16
F 17	15 39 16	26° 7'22	15°58	13°26	29° 1	4°46	25°41	21°39	11°27	20°25	16°28	12°38	13°18	15°28	20°20	F 17
S 18	15 43 12	27° 5'02	0♎ 4	13°11	0♉13	5°24	25°40	21°35	11°25	20°27	16°27	12°35	13°15	15°35	20°22	S 18
S 19	15 47 9	28° 2'41	14°37	12°59	1°26	6° 2	25°39	21°30	11°24	20°30	16°27	12°29	13°12	15°42	20°24	S 19
M20	15 51 6	29° 0'18	29°34	12°52	2°38	6°40	25°38	21°26	11°22	20°32	16°27	12°21	13° 9	15°48	20°26	M20
T 21	15 55 2	29°57'54	14♏46	12°D49	3°51	7°18	25°38	21°21	11°21	20°34	16°27	12°12	13° 6	15°55	20°28	T 21
W22	15 58 59	0♊55'28	0♐ 4	12°50	5° 3	7°56	25°38	21°17	11°20	20°36	16°26	12° 2	13° 2	16° 2	20°29	W22
T 23	16 2 55	1°53'02	15°17	12°57	6°16	8°33	25°D38	21°13	11°18	20°39	16°26	11°52	12°59	16° 8	20°31	T 23
F 24	16 6 52	2°50'34	0♑13	13° 7	7°28	9°11	25°38	21° 8	11°17	20°41	16°26	11°45	12°56	16°15	20°33	F 24
S 25	16 10 48	3°48'05	14°46	13°22	8°41	9°49	25°38	21° 4	11°16	20°43	16°26	11°40	12°53	16°22	20°34	S 25
S 26	16 14 45	4°45'35	28°51	13°42	9°53	10°27	25°39	21° 0	11°14	20°45	16°26	11°37	12°50	16°29	20°36	S 26
M27	16 18 41	5°43'05	12♒26	14° 6	11° 6	11° 5	25°40	20°55	11°13	20°47	16°D26	11°D37	12°47	16°35	20°37	M27
T 28	16 22 38	6°40'34	25°34	14°34	12°19	11°42	25°40	20°51	11°12	20°50	16°26	11°37	12°43	16°42	20°39	T 28
W29	16 26 35	7°38'01	8♓18	15° 6	13°31	12°20	25°42	20°47	11°11	20°52	16°26	11°R38	12°40	16°49	20°40	W29
T 30	16 30 31	8°35'29	20°43	15°42	14°44	12°58	25°43	20°43	11°10	20°54	16°26	11°37	12°37	16°56	20°42	T 30
F 31	16 34 28	9♊32'55	2♈54	16♉23	15♉57	13♋36	25♍44	20♏39	11♐ 9	20♉56	16♍26	11♌34	12♌34	17♉ 2	20♓43	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	15n 3	12s57	1s17	19n44	1n40	2n18	1s41	24n35	1n13	2n52	1n32	16s11	2n24	4s 5	0n42	16n 5	1s42	19n29	15n29	16n31	16n36	11n 3	0s 3	4n23
T 2	15 21	9 20	2 18	19 25	1 26	2 46	1 42	24 37	1 13	2 53	1 32	16 10	2 24	4 5	0 42	16 5	1 42	19 29	15 28	16 31	16 37	11 5	0 2	4 23
F 3	15 39	5 22	3 12	19 5	1 12	3 14	1 42	24 38	1 13	2 54	1 31	16 9	2 24	4 4	0 42	16 6	1 42	19 29	15 28	16 33	16 38	11 7	0 1	4 23
S 4	15 56	1 15	3 56	18 43	0 56	3 42	1 43	24 39	1 14	2 56	1 31	16 8	2 24	4 3	0 42	16 6	1 42	19 29	15 28	16 35	16 39	11 9	0n 0	4 23
S 5	16 14	2n52	4 29	18 19	0 40	4 9	1 43	24 40	1 14	2 57	1 31	16 7	2 24	4 2	0 42	16 7	1 42	19 29	15 27	16 38	16 40	11 11	0 2	4 23
M 6	16 31	6 52	4 51	17 54	0 23	4 37	1 43	24 41	1 14	2 58	1 31	16 6	2 24	4 1	0 42	16 8	1 42	19 29	15 27	16 41	16 41	11 13	0 3	4 24
T 7	16 47	10 36	4 59	17 28	0 6	5 5	1 43	24 42	1 14	2 59	1 31	16 5	2 24	4 1	0 42	16 8	1 42	19 29	15 26	16 45	16 42	11 15	0 4	4 24
W 8	17 4	13 55	4 55	17 2	0s11	5 32	1 43	24 42	1 14	3 0	1 30	16 4	2 24	4 0	0 42	16 9	1 42	19 29	15 26	16 49	16 43	11 17	0 5	4 24
T 9	17 20	16 41	4 38	16 35	0 29	6 0	1 43	24 42	1 14	3 0	1 30	16 3	2 24	3 59	0 42	16 9	1 42	19 29	15 26	16 53	16 44	11 19	0 6	4 24
F 10	17 36	18 45	4 8	16 8	0 46	6 27	1 43	24 42	1 14	3 1	1 30	16 1	2 24	3 59	0 42	16 10	1 42	19 29	15 25	16 56	16 45	11 21	0 7	4 24
S 11	17 52	20 1	3 27	15 42	1 3	6 54	1 43	24 42	1 14	3 2	1 30	16 0	2 24	3 58	0 42	16 11	1 42	19 29	15 25	16 59	16 46	11 23	0 8	4 24
S 12	18 7	20 22	2 37	15 16	1 20	7 21	1 43	24 42	1 14	3 2	1 29	15 59	2 24	3 57	0 42	16 11	1 42	19 29	15 25	17 1	16 46	11 25	0 9	4 24
M13	18 22	19 46	1 38	14 51	1 36	7 48	1 43	24 41	1 14	3 3	1 29	15 58	2 23	3 57	0 41	16 12	1 42	19 28	15 24	17 2	16 47	11 27	0 10	4 25
T 14	18 37	18 11	0 34	14 27	1 52	8 15	1 42	24 41	1 14	3 3	1 29	15 57	2 23	3 56	0 41	16 12	1 42	19 28	15 24	17 2	16 48	11 29	0 11	4 25
W15	18 51	15 39	0n34	14 5	2 7	8 41	1 42	24 40	1 14	3 4	1 29	15 56	2 23	3 55	0 41	16 13	1 42	19 28	15 23	17 2	16 49	11 30	0 12	4 25
T 16	19 5	12 15	1 42	13 45	2 21	9 8	1 41	24 39	1 14	3 4	1 29	15 55	2 23	3 55	0 41	16 14	1 42	19 28	15 23	17 2	16 50	11 32	0 13	4 25
F 17	19 19	8 6	2 47	13 27	2 34	9 34	1 41	24 38	1 14	3 4	1 28	15 54	2 23	3 54	0 41	16 14	1 42	19 27	15 23	17 2	16 51	11 34	0 14	4 25
S 18	19 32	3 23	3 43	13 11	2 46	10 0	1 40	24 36	1 14	3 4	1 28	15 53	2 23	3 53	0 41	16 15	1 42	19 27	15 22	17 3	16 52	11 36	0 15	4 25
S 19	19 45	1s40	4 27	12 57	2 57	10 26	1 39	24 35	1 14	3 4	1 28	15 52	2 23	3 53	0 41	16 15	1 42	19 27	15 22	17 5	16 53	11 38	0 16	4 26
M20	19 58	6 44	4 54	12 45	3 7	10 52	1 38	24 33	1 14	3 4	1 28	15 51	2 23	3 52	0 41	16 16	1 42	19 27	15 21	17 7	16 54	11 40	0 16	4 26
T 21	20 10	11 29	5 1	12 36	3 16	11 17	1 38	24 31	1 14	3 4	1 27	15 50	2 23	3 52	0 41	16 17	1 42	19 26	15 21	17 10	16 55	11 42	0 17	4 26
W22	20 22	15 31	4 47	12 29	3 24	11 42	1 37	24 29	1 14	3 4	1 27	15 48	2 23	3 51	0 41	16 17	1 42	19 26	15 21	17 13	16 56	11 44	0 18	4 26
T 23	20 34	18 29	4 12	12 24	3 30	12 7	1 36	24 26	1 15	3 4	1 27	15 47	2 23	3 51	0 41	16 18	1 42	19 26	15 20	17 15	16 56	11 46	0 19	4 26
F 24	20 45	20 7	3 21	12 22	3 36	12 32	1 35	24 24	1 15	3 4	1 27	15 46	2 23	3 50	0 41	16 18	1 42	19 25	15 20	17 17	16 57	11 48	0 20	4 26
S 25	20 56	20 23	2 18	12 22	3 40	12 56	1 33	24 21	1 15	3 3	1 26	15 45	2 23	3 50	0 41	16 19	1 42	19 25	15 19	17 19	16 58	11 50	0 21	4 27
S 26	21 7	19 19	1 7	12 25	3 44	13 20	1 32	24 18	1 15	3 3	1 26	15 44	2 22	3 49	0 41	16 19	1 42	19 25	15 19	17 19	16 59	11 52	0 21	4 27
M27	21 17	17 10	0s 4	12 30	3 46	13 44	1 31	24 15	1 15	3 2	1 26	15 43	2 22	3 49	0 41	16 20	1 42	19 24	15 18	17 20	17 0	11 54	0 22	4 27
T 28	21 27	14 10	1 14	12 36	3 47	14 8	1 30	24 12	1 15	3 2	1 26	15 42	2 22	3 49	0 41	16 21	1 42	19 24	15 18	17 19	17 1	11 56	0 23	4 27
W29	21 37	10 35	2 17	12 45	3 48	14 31	1 28	24 8	1 15	3 1	1 25	15 41	2 22	3 48	0 41	16 21	1 42	19 24	15 18	17 19	17 2	11 58	0 24	4 27
T 30	21 46	6 38	3 13	12 56	3 48	14 54	1 27	24 5	1 15	3 0	1 25	15 40	2 22	3 48	0 41	16 22	1 42	19 23	15 17	17 20	17 3	12 0	0 24	4 27
F 31	21n55	2s29	3s58	13n 9	3s46	15n16	1s25	24n 1	1n15	3n 0	1n25	15s39	2n22	3s48	0n41	16n22	1s42	19n23	15n17	17n20	17n 4	12n 1	0n25	4n28

Julian Day Number = 2349397.5, Delta T = 10.48 sec
Ecliptic obliquity = 23°28'26, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'10, Lahiri = 19°57'10Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

JUNE 1720

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 38 24	10♊30'21	14♈54	17♉ 7	17♉ 9	14♋13	25♍46	20°R35	11°R 8	20♉58	16♍26	11°R29	12♌31	17♉ 9	20♓44	S 1
S 2	16 42 21	11°27'46	26°48	17°55	18°22	14°51	25°47	20♏30	11♎ 7	21° 0	16°26	11♌22	12°27	17°16	20°45	S 2
M 3	16 46 17	12°25'10	8♉39	18°47	19°35	15°29	25°49	20°26	11° 7	21° 3	16°27	11°13	12°24	17°22	20°47	M 3
T 4	16 50 14	13°22'33	20°31	19°43	20°47	16° 7	25°52	20°23	11° 6	21° 5	16°27	11° 2	12°21	17°29	20°48	T 4
W 5	16 54 10	14°19'56	2♊25	20°42	22° 0	16°44	25°54	20°19	11° 5	21° 7	16°27	10°51	12°18	17°36	20°49	W 5
T 6	16 58 7	15°17'19	14°22	21°44	23°13	17°22	25°56	20°15	11° 4	21° 9	16°27	10°41	12°15	17°43	20°50	T 6
F 7	17 2 4	16°14'40	26°25	22°50	24°26	18° 0	25°59	20°11	11° 4	21°11	16°28	10°32	12°12	17°49	20°51	F 7
S 8	17 6 0	17°12'01	8♋35	23°59	25°38	18°38	26° 2	20° 7	11° 3	21°13	16°28	10°26	12° 8	17°56	20°52	S 8
S 9	17 9 57	18° 9'21	20°53	25°12	26°51	19°16	26° 5	20° 4	11° 3	21°15	16°29	10°22	12° 5	18° 3	20°52	S 9
M10	17 13 53	19° 6'40	3♌21	26°28	28° 4	19°53	26° 8	20° 0	11° 2	21°17	16°29	10°20	12° 2	18°10	20°53	M10
T 11	17 17 50	20° 3'58	16° 2	27°47	29°17	20°31	26°11	19°56	11° 2	21°19	16°29	10°D20	11°59	18°16	20°54	T 11
W12	17 21 46	21° 1'15	28°59	29° 9	0♊30	21° 9	26°15	19°53	11° 1	21°21	16°30	10°20	11°56	18°23	20°55	W12
T 13	17 25 43	21°58'32	12♍13	0♊34	1°43	21°47	26°18	19°49	11° 1	21°23	16°30	10°22	11°52	18°30	20°55	T 13
F 14	17 29 39	22°55'48	25°48	2° 3	2°55	22°24	26°22	19°46	11° 1	21°25	16°31	10°R22	11°49	18°36	20°56	F 14
S 15	17 33 36	23°53'02	9♎46	3°34	4° 8	23° 2	26°26	19°43	11° 1	21°27	16°31	10°21	11°46	18°43	20°56	S 15
S 16	17 37 33	24°50'16	24° 6	5° 9	5°21	23°40	26°30	19°39	11° 0	21°29	16°32	10°18	11°43	18°50	20°57	S 16
M17	17 41 29	25°47'30	8♏45	6°46	6°34	24°18	26°34	19°36	11° 0	21°31	16°33	10°13	11°40	18°57	20°57	M17
T 18	17 45 26	26°44'42	23°40	8°27	7°47	24°55	26°39	19°33	11°D 0	21°33	16°33	10° 7	11°37	19° 3	20°58	T 18
W19	17 49 22	27°41'54	8♐41	10°10	9° 0	25°33	26°43	19°30	11° 0	21°35	16°34	10° 1	11°33	19°10	20°58	W19
T 20	17 53 19	28°39'06	23°40	11°57	10°13	26°11	26°48	19°27	11° 0	21°37	16°35	9°55	11°30	19°17	20°58	T 20
F 21	17 57 15	29°36'18	8♑29	13°46	11°26	26°48	26°53	19°24	11° 0	21°39	16°36	9°51	11°27	19°23	20°58	F 21
S 22	18 1 12	0♋33'29	22°58	15°38	12°39	27°26	26°58	19°21	11° 1	21°40	16°36	9°48	11°24	19°30	20°58	S 22
S 23	18 5 9	1°30'40	7♒ 4	17°33	13°52	28° 4	27° 3	19°19	11° 1	21°42	16°37	9°D47	11°21	19°37	20°58	S 23
M24	18 9 5	2°27'51	20°43	19°30	15° 5	28°42	27° 9	19°16	11° 1	21°44	16°38	9°47	11°18	19°44	20°R58	M24
T 25	18 13 2	3°25'02	3♓55	21°29	16°18	29°19	27°14	19°13	11° 1	21°46	16°39	9°48	11°14	19°50	20°58	T 25
W26	18 16 58	4°22'12	16°44	23°31	17°31	29°57	27°20	19°11	11° 2	21°48	16°40	9°50	11°11	19°57	20°58	W26
T 27	18 20 55	5°19'24	29°13	25°34	18°44	0♌35	27°26	19° 8	11° 2	21°49	16°41	9°51	11° 8	20° 4	20°58	T 27
F 28	18 24 51	6°16'35	11♈25	27°40	19°58	1°13	27°31	19° 6	11° 3	21°51	16°42	9°R51	11° 5	20°11	20°58	F 28
S 29	18 28 48	7°13'46	23°26	29°47	21°11	1°50	27°38	19° 4	11° 3	21°53	16°43	9°50	11° 2	20°17	20°58	S 29
S 30	18 32 44	8♋10'58	5♉21	1♋55	22♊24	2♌28	27♍44	19♏ 2	11♎ 4	21♉55	16♍44	9♌47	10♌58	20♉24	20♓57	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	22n 3	1n41	4s32	13n23	3s44	15n38	1s24	23n57	1n15	2n59	1n25	15s38	2n22	3s47	0n41	16n23	1s42	19n22	15n16	17n22	17n 5	12n 3	0n26	4n28	
S 2	22 11	5 46	4 54	13 39	3 41	16 0	1 22	23 53	1 14	2 58	1 24	15 38	2 22	3 47	0 41	16 23	1 42	19 22	15 16	17 24	17 5	12 5	0 26	4 28	
M 3	22 19	9 37	5 4	13 57	3 37	16 21	1 21	23 48	1 14	2 57	1 24	15 37	2 22	3 47	0 41	16 24	1 42	19 21	15 15	17 26	17 6	12 7	0 27	4 28	
T 4	22 26	13 5	5 0	14 16	3 33	16 42	1 19	23 44	1 14	2 56	1 24	15 36	2 21	3 46	0 41	16 24	1 42	19 21	15 15	17 29	17 7	12 9	0 28	4 28	
W 5	22 33	16 3	4 43	14 37	3 28	17 3	1 17	23 39	1 14	2 55	1 24	15 35	2 21	3 46	0 41	16 25	1 42	19 20	15 15	17 32	17 8	12 11	0 28	4 29	
T 6	22 40	18 21	4 14	14 58	3 22	17 23	1 15	23 34	1 14	2 54	1 23	15 34	2 21	3 46	0 41	16 26	1 42	19 20	15 14	17 35	17 9	12 13	0 29	4 29	
F 7	22 46	19 53	3 33	15 21	3 15	17 43	1 14	23 29	1 14	2 52	1 23	15 33	2 21	3 46	0 41	16 26	1 42	19 19	15 14	17 37	17 10	12 15	0 29	4 29	
S 8	22 51	20 30	2 42	15 45	3 8	18 2	1 12	23 24	1 14	2 51	1 23	15 32	2 21	3 45	0 41	16 27	1 42	19 19	15 13	17 39	17 11	12 17	0 30	4 29	
S 9	22 57	20 10	1 43	16 10	3 1	18 21	1 10	23 19	1 14	2 50	1 23	15 31	2 21	3 45	0 40	16 27	1 42	19 18	15 13	17 40	17 12	12 19	0 30	4 29	
M10	23 2	18 50	0 37	16 36	2 52	18 39	1 8	23 13	1 14	2 48	1 22	15 31	2 20	3 45	0 40	16 28	1 42	19 18	15 12	17 41	17 13	12 21	0 31	4 30	
T 11	23 6	16 32	0n31	17 2	2 44	18 57	1 6	23 8	1 14	2 47	1 22	15 30	2 20	3 45	0 40	16 28	1 42	19 17	15 12	17 41	17 13	12 23	0 31	4 30	
W12	23 10	13 23	1 39	17 29	2 35	19 15	1 4	23 2	1 14	2 45	1 22	15 29	2 20	3 45	0 40	16 29	1 42	19 17	15 12	17 40	17 14	12 24	0 32	4 30	
T 13	23 14	9 30	2 43	17 56	2 25	19 32	1 2	22 56	1 14	2 43	1 22	15 28	2 20	3 45	0 40	16 29	1 43	19 16	15 11	17 40	17 15	12 26	0 32	4 30	
F 14	23 17	5 2	3 40	18 24	2 15	19 48	1 0	22 50	1 14	2 42	1 21	15 28	2 20	3 45	0 40	16 30	1 43	19 15	15 11	17 40	17 16	12 28	0 33	4 30	
S 15	23 20	0 12	4 26	18 52	2 4	20 4	0 57	22 43	1 14	2 40	1 21	15 27	2 20	3 45	0 40	16 30	1 43	19 15	15 10	17 40	17 17	12 30	0 33	4 31	
S 16	23 22	4s46	4 56	19 19	1 54	20 19	0 55	22 37	1 14	2 38	1 21	15 26	2 19	3 45	0 40	16 31	1 43	19 14	15 10	17 41	17 18	12 32	0 33	4 31	
M17	23 24	9 34	5 8	19 47	1 43	20 34	0 53	22 30	1 14	2 36	1 21	15 26	2 19	3 45	0 40	16 31	1 43	19 14	15 10	17 42	17 19	12 34	0 34	4 31	
T 18	23 26	13 52	5 0	20 14	1 31	20 48	0 51	22 23	1 14	2 34	1 21	15 25	2 19	3 45	0 40	16 31	1 43	19 13	15 9	17 44	17 20	12 36	0 34	4 31	
W19	23 27	17 19	4 31	20 41	1 20	21 2	0 48	22 16	1 14	2 32	1 20	15 24	2 19	3 45	0 40	16 32	1 43	19 12	15 9	17 46	17 20	12 38	0 34	4 31	
T 20	23 28	19 36	3 44	21 8	1 8	21 15	0 46	22 9	1 14	2 30	1 20	15 24	2 19	3 45	0 40	16 32	1 43	19 12	15 8	17 47	17 21	12 40	0 34	4 32	
F 21	23 28	20 31	2 42	21 33	0 57	21 28	0 44	22 2	1 14	2 28	1 20	15 23	2 18	3 45	0 40	16 33	1 43	19 11	15 8	17 48	17 22	12 42	0 35	4 32	
S 22	23 28	20 2	1 30	21 57	0 45	21 40	0 41	21 54	1 14	2 25	1 20	15 23	2 18	3 45	0 40	16 33	1 43	19 10	15 7	17 49	17 23	12 43	0 35	4 32	
S 23	23 28	18 18	0 15	22 21	0 33	21 51	0 39	21 47	1 13	2 23	1 19	15 22	2 18	3 45	0 40	16 34	1 43	19 10	15 7	17 50	17 24	12 45	0 35	4 32	
M24	23 27	15 33	0s59	22 42	0 21	22 2	0 37	21 39	1 13	2 21	1 19	15 21	2 18	3 45	0 40	16 34	1 43	19 9	15 7	17 49	17 25	12 47	0 35	4 32	
T 25	23 26	12 4	2 8	23 2	0 10	22 12	0 34	21 31	1 13	2 18	1 19	15 21	2 18	3 45	0 40	16 35	1 43	19 8	15 6	17 49	17 26	12 49	0 36	4 32	
W26	23 24	8 7	3 8	23 20	0n 2	22 21	0 32	21 23	1 13	2 16	1 19	15 21	2 17	3 46	0 40	16 35	1 43	19 7	15 6	17 49	17 27	12 51	0 36	4 33	
T 27	23 22	3 56	3 57	23 37	0 13	22 30	0 29	21 15	1 13	2 13	1 18	15 20	2 17	3 46	0 40	16 35	1 43	19 7	15 5	17 48	17 28	12 53	0 36	4 33	
F 28	23 19	0n19	4 35	23 50	0 23	22 39	0 27	21 6	1 13	2 11	1 18	15 20	2 17	3 46	0 40	16 36	1 43	19 6	15 5	17 48	17 28	12 55	0 36	4 33	
S 29	23 17	4 29	4 59	24 2	0 34	22 46	0 25	20 58	1 13	2 8	1 18	15 19	2 17	3 46	0 40	16 36	1 43	19 5	15 5	17 49	17 29	12 57	0 36	4 33	
S 30	23n13	8n26	5s11	24n11	0n43	22n53	0s22	20n49	1n13	2n 6	1n18	15s19	2n16	3s47	0n40	16n37	1s43	19n 5	15n 4	17n49	17n30	12n59	0n36	4n33	

Julian Day Number = 2349428.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'26, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'14, Lahiri = 19°57'15Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

JULY 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 36 41	9♋ 8'10	17♉13	4♋ 4	23♊37	3♌ 6	27♍50	19°R 0	11♎ 4	21♉56	16♍45	9°R43	10♌55	20♉31	20°R57	M 1
T 2	18 40 37	10° 5'22	29° 6	6°14	24°50	3°44	27°57	18♏58	11° 5	21°58	16°46	9♌39	10°52	20°37	20♓57	T 2
W 3	18 44 34	11° 2'34	11♊ 3	8°24	26° 4	4°21	28° 3	18°56	11° 6	22° 0	16°47	9°34	10°49	20°44	20°56	W 3
T 4	18 48 31	11°59'47	23° 7	10°34	27°17	4°59	28°10	18°54	11° 7	22° 1	16°48	9°29	10°46	20°51	20°56	T 4
F 5	18 52 27	12°57'00	5♋20	12°43	28°30	5°37	28°17	18°52	11° 7	22° 3	16°49	9°25	10°43	20°58	20°55	F 5
S 6	18 56 24	13°54'13	17°42	14°53	29°44	6°15	28°24	18°51	11° 8	22° 4	16°50	9°22	10°39	21° 4	20°54	S 6
S 7	19 0 20	14°51'27	0♌16	17° 2	0♋57	6°52	28°31	18°49	11° 9	22° 6	16°52	9°21	10°36	21°11	20°54	S 7
M 8	19 4 17	15°48'40	13° 2	19° 9	2°10	7°30	28°38	18°47	11°10	22° 7	16°53	9°D21	10°33	21°18	20°53	M 8
T 9	19 8 13	16°45'54	26° 0	21°16	3°24	8° 8	28°46	18°46	11°11	22° 9	16°54	9°21	10°30	21°24	20°52	T 9
W10	19 12 10	17°43'07	9♍12	23°21	4°37	8°46	28°53	18°45	11°12	22°10	16°55	9°23	10°27	21°31	20°51	W10
T 11	19 16 7	18°40'21	22°39	25°26	5°51	9°24	29° 1	18°44	11°14	22°12	16°57	9°24	10°24	21°38	20°50	T 11
F 12	19 20 3	19°37'35	6♎20	27°28	7° 4	10° 1	29° 9	18°43	11°15	22°13	16°58	9°25	10°20	21°45	20°49	F 12
S 13	19 24 0	20°34'48	20°17	29°29	8°17	10°39	29°17	18°42	11°16	22°14	16°59	9°R25	10°17	21°51	20°48	S 13
S 14	19 27 56	21°32'02	4♏28	1♌28	9°31	11°17	29°25	18°41	11°17	22°16	17° 1	9°25	10°14	21°58	20°47	S 14
M15	19 31 53	22°29'17	18°51	3°26	10°44	11°55	29°33	18°40	11°19	22°17	17° 2	9°24	10°11	22° 5	20°46	M15
T 16	19 35 49	23°26'31	3♐24	5°22	11°58	12°33	29°41	18°39	11°20	22°18	17° 4	9°22	10° 8	22°12	20°45	T 16
W17	19 39 46	24°23'46	18° 0	7°16	13°12	13°10	29°49	18°39	11°22	22°20	17° 5	9°20	10° 4	22°18	20°44	W17
T 18	19 43 42	25°21'01	2♑35	9° 9	14°25	13°48	29°58	18°38	11°23	22°21	17° 7	9°19	10° 1	22°25	20°42	T 18
F 19	19 47 39	26°18'16	17° 2	11° 0	15°39	14°26	0♎ 6	18°38	11°25	22°22	17° 8	9°17	9°58	22°32	20°41	F 19
S 20	19 51 36	27°15'33	1♒15	12°49	16°52	15° 4	0°15	18°37	11°26	22°23	17°10	9°17	9°55	22°38	20°40	S 20
S 21	19 55 32	28°12'49	15°10	14°36	18° 6	15°42	0°24	18°37	11°28	22°25	17°11	9°D17	9°52	22°45	20°38	S 21
M22	19 59 29	29°10'07	28°43	16°21	19°20	16°20	0°33	18°37	11°30	22°26	17°13	9°17	9°49	22°52	20°37	M22
T 23	20 3 25	0♌ 7'25	11♓55	18° 5	20°33	16°57	0°42	18°D37	11°31	22°27	17°14	9°18	9°45	22°59	20°35	T 23
W24	20 7 22	1° 4'44	24°45	19°47	21°47	17°35	0°51	18°37	11°33	22°28	17°16	9°19	9°42	23° 5	20°34	W24
T 25	20 11 18	2° 2'04	7♈16	21°27	23° 1	18°13	1° 0	18°37	11°35	22°29	17°18	9°19	9°39	23°12	20°32	T 25
F 26	20 15 15	2°59'25	19°31	23° 6	24°15	18°51	1°10	18°37	11°37	22°30	17°19	9°20	9°36	23°19	20°31	F 26
S 27	20 19 11	3°56'48	1♉34	24°43	25°28	19°29	1°19	18°38	11°39	22°31	17°21	9°R20	9°33	23°25	20°29	S 27
S 28	20 23 8	4°54'11	13°30	26°18	26°42	20° 7	1°28	18°38	11°41	22°32	17°23	9°20	9°30	23°32	20°27	S 28
M29	20 27 5	5°51'36	25°23	27°51	27°56	20°45	1°38	18°39	11°43	22°33	17°25	9°20	9°26	23°39	20°25	M29
T 30	20 31 1	6°49'02	7♊17	29°23	29°10	21°23	1°48	18°39	11°45	22°34	17°26	9°20	9°23	23°46	20°24	T 30
W31	20 34 58	7♌46'29	19♊17	0♍53	0♌24	22♌ 1	1♎58	18♏40	11♎47	22♉35	17♍28	9♌19	9♌20	23♉52	20♓22	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	23n 9	12n 3	5s 9	24n17	0n53	23n 0	0s20	20n40	1n13	2n 3	1n18	15s19	2n16	3s47	0n40	16n37	1s43	19n 4	15n 4	17n50	17n31	13n 0	0n36	4n34
T 2	23 5	15 12	4 54	24 21	1 1	23 5	0 17	20 31	1 13	2 0	1 17	15 18	2 16	3 47	0 40	16 37	1 43	19 3	15 4	17 52	17 32	13 2	0 36	4 34
W 3	23 1	17 44	4 27	24 22	1 9	23 10	0 15	20 22	1 12	1 57	1 17	15 18	2 16	3 47	0 40	16 38	1 43	19 2	15 3	17 53	17 33	13 4	0 36	4 34
T 4	22 56	19 31	3 47	24 20	1 17	23 15	0 12	20 13	1 12	1 54	1 17	15 18	2 15	3 48	0 39	16 38	1 43	19 1	15 3	17 54	17 34	13 6	0 36	4 34
F 5	22 51	20 26	2 56	24 15	1 23	23 18	0 10	20 4	1 12	1 51	1 17	15 17	2 15	3 48	0 39	16 39	1 43	19 1	15 2	17 55	17 34	13 8	0 36	4 34
S 6	22 45	20 23	1 56	24 7	1 29	23 21	0 7	19 54	1 12	1 48	1 17	15 17	2 15	3 49	0 39	16 39	1 43	19 0	15 2	17 56	17 35	13 10	0 36	4 35
S 7	22 39	19 19	0 50	23 57	1 34	23 24	0 5	19 45	1 12	1 45	1 16	15 17	2 15	3 49	0 39	16 39	1 43	18 59	15 2	17 56	17 36	13 12	0 36	4 35
M 8	22 32	17 15	0n20	23 44	1 39	23 25	0 2	19 35	1 12	1 42	1 16	15 17	2 15	3 49	0 39	16 40	1 43	18 58	15 1	17 57	17 37	13 14	0 36	4 35
T 9	22 25	14 17	1 30	23 28	1 42	23 26	0n 0	19 25	1 12	1 39	1 16	15 17	2 14	3 50	0 39	16 40	1 43	18 57	15 1	17 56	17 38	13 16	0 35	4 35
W10	22 18	10 33	2 37	23 11	1 45	23 26	0 3	19 15	1 12	1 36	1 16	15 17	2 14	3 50	0 39	16 40	1 43	18 57	15 1	17 56	17 39	13 17	0 35	4 35
T 11	22 10	6 14	3 36	22 51	1 47	23 26	0 5	19 5	1 12	1 33	1 16	15 17	2 14	3 51	0 39	16 41	1 44	18 56	15 0	17 56	17 40	13 19	0 35	4 35
F 12	22 2	1 32	4 24	22 28	1 49	23 25	0 8	18 54	1 11	1 30	1 15	15 16	2 14	3 51	0 39	16 41	1 44	18 55	15 0	17 55	17 40	13 21	0 35	4 36
S 13	21 54	3s20	4 58	22 4	1 49	23 23	0 10	18 44	1 11	1 26	1 15	15 16	2 13	3 52	0 39	16 41	1 44	18 54	15 0	17 55	17 41	13 23	0 35	4 36
S 14	21 45	8 5	5 14	21 38	1 49	23 20	0 13	18 33	1 11	1 23	1 15	15 16	2 13	3 52	0 39	16 41	1 44	18 53	14 59	17 55	17 42	13 25	0 34	4 36
M15	21 36	12 28	5 11	21 11	1 49	23 17	0 15	18 23	1 11	1 19	1 15	15 16	2 13	3 53	0 39	16 42	1 44	18 52	14 59	17 56	17 43	13 27	0 34	4 36
T 16	21 26	16 9	4 48	20 41	1 48	23 13	0 17	18 12	1 11	1 16	1 15	15 17	2 13	3 54	0 39	16 42	1 44	18 51	14 59	17 56	17 44	13 29	0 34	4 36
W17	21 16	18 50	4 7	20 11	1 46	23 9	0 20	18 1	1 11	1 12	1 14	15 17	2 12	3 54	0 39	16 42	1 44	18 51	14 58	17 57	17 45	13 30	0 33	4 36
T 18	21 6	20 18	3 9	19 39	1 43	23 3	0 22	17 50	1 11	1 9	1 14	15 17	2 12	3 55	0 39	16 43	1 44	18 50	14 58	17 57	17 46	13 32	0 33	4 37
F 19	20 55	20 24	2 0	19 6	1 40	22 58	0 24	17 39	1 10	1 5	1 14	15 17	2 12	3 55	0 39	16 43	1 44	18 49	14 58	17 57	17 46	13 34	0 33	4 37
S 20	20 44	19 11	0 44	18 32	1 37	22 51	0 27	17 28	1 10	1 2	1 14	15 17	2 12	3 56	0 39	16 43	1 44	18 48	14 57	17 58	17 47	13 36	0 32	4 37
S 21	20 33	16 50	0s33	17 57	1 32	22 44	0 29	17 16	1 10	0 58	1 14	15 17	2 11	3 57	0 39	16 43	1 44	18 47	14 57	17 58	17 48	13 38	0 32	4 37
M22	20 21	13 35	1 46	17 21	1 28	22 36	0 31	17 5	1 10	0 54	1 13	15 17	2 11	3 57	0 39	16 44	1 44	18 46	14 57	17 57	17 49	13 40	0 31	4 37
T 23	20 9	9 44	2 51	16 45	1 23	22 27	0 33	16 53	1 10	0 51	1 13	15 18	2 11	3 58	0 39	16 44	1 44	18 45	14 56	17 57	17 50	13 42	0 31	4 37
W24	19 57	5 33	3 46	16 8	1 17	22 18	0 36	16 41	1 10	0 47	1 13	15 18	2 10	3 59	0 39	16 44	1 44	18 44	14 56	17 57	17 51	13 43	0 31	4 38
T 25	19 44	1 14	4 29	15 30	1 12	22 8	0 38	16 30	1 10	0 43	1 13	15 18	2 10	4 0	0 39	16 44	1 44	18 43	14 56	17 57	17 52	13 45	0 30	4 38
F 26	19 31	3n 3	4 58	14 52	1 5	21 57	0 40	16 18	1 9	0 39	1 13	15 19	2 10	4 0	0 39	16 44	1 44	18 42	14 56	17 57	17 52	13 47	0 29	4 38
S 27	19 18	7 7	5 14	14 13	0 59	21 46	0 42	16 6	1 9	0 35	1 13	15 19	2 10	4 1	0 39	16 45	1 44	18 42	14 55	17 57	17 53	13 49	0 29	4 38
S 28	19 4	10 53	5 16	13 35	0 52	21 34	0 44	15 53	1 9	0 31	1 12	15 19	2 9	4 2	0 39	16 45	1 44	18 41	14 55	17 57	17 54	13 51	0 28	4 38
M29	18 50	14 12	5 5	12 56	0 44	21 21	0 46	15 41	1 9	0 27	1 12	15 20	2 9	4 3	0 38	16 45	1 44	18 40	14 55	17 57	17 55	13 53	0 28	4 38
T 30	18 36	16 57	4 40	12 17	0 37	21 8	0 48	15 29	1 9	0 23	1 12	15 20	2 9	4 4	0 38	16 45	1 44	18 39	14 55	17 57	17 56	13 54	0 27	4 38
W31	18n21	19n 0	4s 3	11n37	0n29	20n55	0n50	15n16	1n 8	0n19	1n12	15s20	2n 9	4s 5	0n38	16n45	1s45	18n38	14n54	17n57	17n57	13n56	0n27	4n38

Julian Day Number = 2349458.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'26, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'18, Lahiri = 19°57'19Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

AUGUST 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 38 54	8♌43'57	1♋27	2♍21	1♌38	22♌39	2♎ 7	18♏41	11♎49	22♉35	17♍30	9°R19	9♌17	23♉59	20°R20	T 1
F 2	20 42 51	9°41'26	13°48	3°47	2°52	23°17	2°17	18°42	11°51	22°36	17°32	9°D19	9°14	24° 6	20♓18	F 2
S 3	20 46 47	10°38'57	26°24	5°12	4° 6	23°55	2°27	18°43	11°53	22°37	17°33	9♌19	9°10	24°12	20°16	S 3
S 4	20 50 44	11°36'28	9♌15	6°35	5°19	24°32	2°38	18°44	11°56	22°38	17°35	9°R19	9° 7	24°19	20°14	S 4
M 5	20 54 40	12°34'01	22°23	7°56	6°33	25°10	2°48	18°45	11°58	22°38	17°37	9°19	9° 4	24°26	20°12	M 5
T 6	20 58 37	13°31'35	5♍45	9°15	7°48	25°48	2°58	18°47	12° 0	22°39	17°39	9°19	9° 1	24°33	20°10	T 6
W 7	21 2 34	14°29'09	19°21	10°32	9° 2	26°27	3° 9	18°48	12° 3	22°40	17°41	9°19	8°58	24°39	20° 7	W 7
T 8	21 6 30	15°26'45	3♎ 9	11°47	10°16	27° 5	3°19	18°50	12° 5	22°40	17°43	9°18	8°55	24°46	20° 5	T 8
F 9	21 10 27	16°24'22	17° 8	13° 0	11°30	27°43	3°30	18°51	12° 8	22°41	17°45	9°17	8°51	24°53	20° 3	F 9
S 10	21 14 23	17°21'59	1♏14	14°11	12°44	28°21	3°40	18°53	12°10	22°41	17°47	9°17	8°48	25° 0	20° 1	S 10
S 11	21 18 20	18°19'38	15°26	15°20	13°58	28°59	3°51	18°55	12°13	22°42	17°49	9°D16	8°45	25° 6	19°59	S 11
M12	21 22 16	19°17'17	29°40	16°27	15°12	29°37	4° 2	18°57	12°15	22°42	17°51	9°16	8°42	25°13	19°56	M12
T 13	21 26 13	20°14'58	13♐55	17°31	16°26	0♍15	4°13	18°59	12°18	22°43	17°53	9°17	8°39	25°20	19°54	T 13
W14	21 30 9	21°12'40	28° 7	18°33	17°40	0°53	4°24	19° 1	12°21	22°43	17°55	9°18	8°36	25°26	19°51	W14
T 15	21 34 6	22°10'23	12♑14	19°32	18°55	1°31	4°35	19° 3	12°23	22°44	17°57	9°19	8°32	25°33	19°49	T 15
F 16	21 38 3	23° 8'07	26°14	20°28	20° 9	2° 9	4°46	19° 5	12°26	22°44	17°59	9°20	8°29	25°40	19°47	F 16
S 17	21 41 59	24° 5'52	10♒ 2	21°21	21°23	2°47	4°57	19° 7	12°29	22°44	18° 1	9°R20	8°26	25°47	19°44	S 17
S 18	21 45 56	25° 3'39	23°37	22°12	22°37	3°25	5° 8	19°10	12°32	22°45	18° 3	9°20	8°23	25°53	19°42	S 18
M19	21 49 52	26° 1'27	6♓56	22°59	23°52	4° 4	5°20	19°12	12°35	22°45	18° 5	9°18	8°20	26° 0	19°39	M19
T 20	21 53 49	26°59'16	19°58	23°42	25° 6	4°42	5°31	19°15	12°38	22°45	18° 7	9°16	8°16	26° 7	19°37	T 20
W21	21 57 45	27°57'07	2♈43	24°23	26°20	5°20	5°42	19°18	12°40	22°45	18° 9	9°14	8°13	26°13	19°34	W21
T 22	22 1 42	28°55'00	15°11	24°59	27°35	5°58	5°54	19°21	12°43	22°45	18°11	9°11	8°10	26°20	19°31	T 22
F 23	22 5 38	29°52'54	27°26	25°31	28°49	6°36	6° 5	19°23	12°46	22°46	18°13	9° 8	8° 7	26°27	19°29	F 23
S 24	22 9 35	0♍50'50	9♉29	25°59	0♍ 3	7°15	6°17	19°26	12°49	22°46	18°15	9° 6	8° 4	26°34	19°26	S 24
S 25	22 13 31	1°48'49	21°25	26°22	1°18	7°53	6°29	19°29	12°52	22°46	18°17	9° 4	8° 1	26°40	19°23	S 25
M26	22 17 28	2°46'49	3♊18	26°40	2°32	8°31	6°40	19°33	12°56	22°R46	18°20	9°D 4	7°57	26°47	19°21	M26
T 27	22 21 25	3°44'51	15°12	26°53	3°46	9° 9	6°52	19°36	12°59	22°46	18°22	9° 4	7°54	26°54	19°18	T 27
W28	22 25 21	4°42'54	27°12	27° 1	5° 1	9°48	7° 4	19°39	13° 2	22°46	18°24	9° 5	7°51	27° 0	19°15	W28
T 29	22 29 18	5°41'00	9♋24	27°R 3	6°15	10°26	7°16	19°43	13° 5	22°46	18°26	9° 7	7°48	27° 7	19°13	T 29
F 30	22 33 14	6°39'08	21°50	26°59	7°30	11° 4	7°28	19°46	13° 8	22°45	18°28	9° 9	7°45	27°14	19°10	F 30
S 31	22 37 11	7♍37'18	4♌35	26♍49	8♍44	11♍43	7♎40	19♏50	13♎11	22♉45	18♍30	9°R10	7♌41	27♉21	19♓ 7	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	18n 6	20n13	3s15	10n58	0n20	20n40	0n52	15n 4	1n 8	0n15	1n12	15s21	2n 8	4s 5	0n38	16n46	1s45	18n37	14n54	17n57	17n58	13n58	0n26	4n39
F 2	17 51	20 29	2 17	10 19	0 12	20 25	0 54	14 51	1 8	0 11	1 12	15 21	2 8	4 6	0 38	16 46	1 45	18 36	14 54	17 57	17 58	14 0	0 25	4 39
S 3	17 35	19 44	1 11	9 40	0 3	20 10	0 56	14 38	1 8	0 7	1 12	15 22	2 8	4 7	0 38	16 46	1 45	18 35	14 54	17 57	17 59	14 2	0 25	4 39
S 4	17 20	17 58	0 0	9 1	0s 6	19 53	0 57	14 25	1 8	0 3	1 11	15 23	2 8	4 8	0 38	16 46	1 45	18 34	14 53	17 57	18 0	14 4	0 24	4 39
M 5	17 4	15 12	1n12	8 22	0 15	19 37	0 59	14 13	1 8	0s 1	1 11	15 23	2 7	4 9	0 38	16 46	1 45	18 33	14 53	17 57	18 1	14 5	0 23	4 39
T 6	16 47	11 36	2 21	7 44	0 25	19 19	1 1	14 0	1 7	0 6	1 11	15 24	2 7	4 10	0 38	16 46	1 45	18 32	14 53	17 57	18 2	14 7	0 22	4 39
W 7	16 31	7 21	3 24	7 6	0 34	19 2	1 2	13 46	1 7	0 10	1 11	15 24	2 7	4 11	0 38	16 46	1 45	18 31	14 53	17 57	18 3	14 9	0 22	4 39
T 8	16 14	2 39	4 16	6 28	0 44	18 43	1 4	13 33	1 7	0 14	1 11	15 25	2 7	4 12	0 38	16 46	1 45	18 30	14 53	17 57	18 3	14 11	0 21	4 39
F 9	15 57	2s13	4 53	5 51	0 54	18 24	1 5	13 20	1 7	0 19	1 11	15 26	2 6	4 13	0 38	16 47	1 45	18 29	14 52	17 57	18 4	14 13	0 20	4 39
S 10	15 39	7 1	5 13	5 15	1 4	18 5	1 7	13 6	1 7	0 23	1 11	15 26	2 6	4 14	0 38	16 47	1 45	18 29	14 52	17 58	18 5	14 15	0 19	4 39
S 11	15 21	11 28	5 15	4 39	1 14	17 45	1 8	12 53	1 6	0 27	1 10	15 27	2 6	4 15	0 38	16 47	1 45	18 28	14 52	17 58	18 6	14 16	0 19	4 40
M12	15 4	15 16	4 57	4 4	1 24	17 25	1 10	12 39	1 6	0 32	1 10	15 28	2 6	4 16	0 38	16 47	1 45	18 27	14 52	17 58	18 7	14 18	0 18	4 40
T 13	14 45	18 11	4 21	3 29	1 35	17 4	1 11	12 26	1 6	0 36	1 10	15 29	2 5	4 17	0 38	16 47	1 45	18 26	14 52	17 57	18 8	14 20	0 17	4 40
W14	14 27	19 59	3 29	2 56	1 45	16 42	1 12	12 12	1 6	0 41	1 10	15 30	2 5	4 18	0 38	16 47	1 45	18 25	14 52	17 57	18 8	14 22	0 16	4 40
T 15	14 8	20 31	2 24	2 23	1 55	16 20	1 13	11 58	1 6	0 45	1 10	15 30	2 5	4 19	0 38	16 47	1 45	18 24	14 51	17 57	18 9	14 24	0 15	4 40
F 16	13 50	19 46	1 12	1 51	2 6	15 58	1 15	11 44	1 5	0 50	1 10	15 31	2 5	4 20	0 38	16 47	1 45	18 23	14 51	17 57	18 10	14 25	0 14	4 40
S 17	13 30	17 49	0s 4	1 21	2 16	15 35	1 16	11 30	1 5	0 54	1 10	15 32	2 4	4 22	0 38	16 47	1 45	18 22	14 51	17 57	18 11	14 27	0 13	4 40
S 18	13 11	14 54	1 18	0 52	2 26	15 12	1 17	11 16	1 5	0 59	1 10	15 33	2 4	4 23	0 38	16 47	1 46	18 21	14 51	17 57	18 12	14 29	0 12	4 40
M19	12 52	11 15	2 26	0 24	2 37	14 49	1 18	11 2	1 5	1 3	1 9	15 34	2 4	4 24	0 38	16 47	1 46	18 20	14 51	17 57	18 13	14 31	0 11	4 40
T 20	12 32	7 8	3 26	0s 3	2 47	14 25	1 19	10 48	1 4	1 8	1 9	15 35	2 4	4 25	0 38	16 47	1 46	18 19	14 51	17 58	18 13	14 33	0 10	4 40
W21	12 12	2 48	4 13	0 28	2 57	14 0	1 19	10 34	1 4	1 13	1 9	15 36	2 3	4 26	0 38	16 47	1 46	18 18	14 51	17 58	18 14	14 34	0 9	4 40
T 22	11 52	1n34	4 48	0 51	3 6	13 35	1 20	10 20	1 4	1 17	1 9	15 37	2 3	4 27	0 38	16 47	1 46	18 17	14 51	17 59	18 15	14 36	0 9	4 40
F 23	11 32	5 47	5 8	1 12	3 16	13 10	1 21	10 5	1 4	1 22	1 9	15 38	2 3	4 28	0 38	16 47	1 46	18 16	14 50	18 0	18 16	14 38	0 8	4 40
S 24	11 11	9 42	5 15	1 32	3 25	12 45	1 22	9 51	1 4	1 27	1 9	15 39	2 3	4 30	0 38	16 47	1 46	18 16	14 50	18 1	18 17	14 40	0 7	4 40
S 25	10 51	13 12	5 7	1 49	3 33	12 19	1 22	9 36	1 3	1 31	1 9	15 40	2 2	4 31	0 38	16 47	1 46	18 15	14 50	18 1	18 17	14 42	0 5	4 40
M26	10 30	16 9	4 47	2 4	3 42	11 52	1 23	9 22	1 3	1 36	1 9	15 41	2 2	4 32	0 38	16 47	1 46	18 14	14 50	18 1	18 18	14 43	0 4	4 40
T 27	10 9	18 26	4 14	2 16	3 49	11 26	1 23	9 7	1 3	1 41	1 9	15 42	2 2	4 33	0 38	16 47	1 46	18 13	14 50	18 1	18 19	14 45	0 3	4 40
W28	9 48	19 56	3 30	2 26	3 56	10 59	1 24	8 52	1 3	1 46	1 8	15 43	2 2	4 35	0 38	16 47	1 46	18 12	14 50	18 1	18 20	14 47	0 2	4 40
T 29	9 26	20 33	2 36	2 32	4 3	10 32	1 24	8 38	1 2	1 51	1 8	15 44	2 1	4 36	0 38	16 47	1 46	18 11	14 50	18 0	18 21	14 49	0 1	4 40
F 30	9 5	20 10	1 34	2 36	4 8	10 4	1 24	8 23	1 2	1 55	1 8	15 45	2 1	4 37	0 37	16 47	1 46	18 10	14 50	18 0	18 22	14 51	0 0	4 40
S 31	8n43	18n44	0s25	2s36	4s13	9n37	1n25	8n 8	1n 2	2s 0	1n 8	15s47	2n 1	4s38	0n37	16n46	1s46	18n 9	14n50	17n59	18n22	14n52	0s 1	4n40

Julian Day Number = 2349489.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'26, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'23, Lahiri = 19°57'23Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

SEPTEMBER 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 41 7	8♍35'29	17♌41	26°R32	9♍59	12♍21	7♎52	19♏53	13♎15	22°R45	18♍32	9°R 9	7♌38	27♉27	19°R 4	S 1
M 2	22 45 4	9°33'42	1♍ 7	26♍10	11°13	12°59	8° 4	19°57	13°18	22♉45	18°35	9♌ 8	7°35	27°34	19♓ 1	M 2
T 3	22 49 0	10°31'58	14°54	25°40	12°28	13°38	8°16	20° 1	13°21	22°45	18°37	9° 5	7°32	27°41	18°59	T 3
W 4	22 52 57	11°30'14	28°58	25° 5	13°42	14°16	8°28	20° 5	13°25	22°44	18°39	9° 0	7°29	27°47	18°56	W 4
T 5	22 56 54	12°28'33	13♎14	24°23	14°57	14°55	8°41	20° 9	13°28	22°44	18°41	8°55	7°26	27°54	18°53	T 5
F 6	23 0 50	13°26'53	27°38	23°36	16°12	15°33	8°53	20°13	13°31	22°44	18°43	8°50	7°22	28° 1	18°50	F 6
S 7	23 4 47	14°25'15	12♏ 4	22°44	17°26	16°12	9° 5	20°17	13°35	22°43	18°46	8°46	7°19	28° 8	18°47	S 7
S 8	23 8 43	15°23'38	26°27	21°48	18°41	16°50	9°18	20°21	13°38	22°43	18°48	8°43	7°16	28°14	18°45	S 8
M 9	23 12 40	16°22'03	10♐43	20°48	19°55	17°29	9°30	20°25	13°42	22°43	18°50	8°D42	7°13	28°21	18°42	M 9
T 10	23 16 36	17°20'30	24°50	19°47	21°10	18° 7	9°43	20°30	13°45	22°42	18°52	8°42	7°10	28°28	18°39	T 10
W11	23 20 33	18°18'58	8♑46	18°44	22°25	18°46	9°55	20°34	13°49	22°42	18°54	8°43	7° 7	28°34	18°36	W11
T 12	23 24 29	19°17'28	22°31	17°43	23°39	19°24	10° 8	20°39	13°52	22°41	18°57	8°44	7° 3	28°41	18°33	T 12
F 13	23 28 26	20°16'00	6♒ 5	16°43	24°54	20° 3	10°20	20°43	13°56	22°40	18°59	8°R45	7° 0	28°48	18°30	F 13
S 14	23 32 23	21°14'33	19°28	15°48	26° 9	20°42	10°33	20°48	13°59	22°40	19° 1	8°45	6°57	28°55	18°27	S 14
S 15	23 36 19	22°13'08	2♓39	14°57	27°23	21°20	10°45	20°53	14° 3	22°39	19° 3	8°42	6°54	29° 1	18°25	S 15
M16	23 40 16	23°11'44	15°38	14°13	28°38	21°59	10°58	20°57	14° 6	22°39	19° 5	8°38	6°51	29° 8	18°22	M16
T 17	23 44 12	24°10'23	28°24	13°36	29°53	22°37	11°11	21° 2	14°10	22°38	19° 8	8°31	6°47	29°15	18°19	T 17
W18	23 48 9	25° 9'03	10♈58	13° 8	1♎ 7	23°16	11°23	21° 7	14°14	22°37	19°10	8°23	6°44	29°21	18°16	W18
T 19	23 52 5	26° 7'46	23°19	12°49	2°22	23°55	11°36	21°12	14°17	22°36	19°12	8°14	6°41	29°28	18°13	T 19
F 20	23 56 2	27° 6'31	5♉30	12°D40	3°37	24°34	11°49	21°17	14°21	22°36	19°14	8° 5	6°38	29°35	18°11	F 20
S 21	23 59 58	28° 5'18	17°30	12°41	4°51	25°12	12° 2	21°22	14°24	22°35	19°16	7°58	6°35	29°42	18° 8	S 21
S 22	0 3 55	29° 4'07	29°24	12°52	6° 6	25°51	12°14	21°27	14°28	22°34	19°18	7°51	6°32	29°48	18° 5	S 22
M23	0 7 51	0♎ 2'59	11♊15	13°13	7°21	26°30	12°27	21°33	14°32	22°33	19°21	7°47	6°28	29°55	18° 2	M23
T 24	0 11 48	1° 1'52	23° 7	13°43	8°36	27° 9	12°40	21°38	14°35	22°32	19°23	7°45	6°25	0♊ 2	17°59	T 24
W25	0 15 45	2° 0'49	5♋ 6	14°23	9°50	27°48	12°53	21°43	14°39	22°31	19°25	7°D45	6°22	0° 8	17°57	W25
T 26	0 19 41	2°59'47	17°15	15°11	11° 5	28°26	13° 6	21°49	14°43	22°30	19°27	7°46	6°19	0°15	17°54	T 26
F 27	0 23 38	3°58'48	29°41	16° 7	12°20	29° 5	13°19	21°54	14°47	22°29	19°29	7°46	6°16	0°22	17°51	F 27
S 28	0 27 34	4°57'51	12♌27	17°11	13°35	29°44	13°32	22° 0	14°50	22°28	19°31	7°R47	6°13	0°29	17°49	S 28
S 29	0 31 31	5°56'56	25°39	18°21	14°50	0♎23	13°45	22° 5	14°54	22°27	19°34	7°45	6° 9	0°35	17°46	S 29
M30	0 35 27	6♎56'03	9♍16	19♍37	16♎ 4	1♎ 2	13♎58	22♏11	14♎58	22♉26	19♍36	7♌41	6♌ 6	0♊42	17♓43	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	8n22	16n18	0n47	2s32	4s16	9n 9	1n25	7n53	1n 2	2s 5	1n 8	15s48	2n 1	4s40	0n37	16n46	1s46	18n 8	14n50	17n59	18n23	14n54	0s 2	4n40
M 2	8 0	12 55	1 57	2 25	4 18	8 40	1 25	7 38	1 1	2 10	1 8	15 49	2 1	4 41	0 37	16 46	1 46	18 7	14 50	18 0	18 24	14 56	0 3	4 40
T 3	7 38	8 46	3 3	2 14	4 19	8 12	1 25	7 23	1 1	2 15	1 8	15 50	2 0	4 42	0 37	16 46	1 46	18 7	14 50	18 1	18 25	14 58	0 4	4 40
W 4	7 16	4 4	3 59	1 59	4 18	7 43	1 25	7 8	1 1	2 20	1 8	15 52	2 0	4 44	0 37	16 46	1 47	18 6	14 50	18 2	18 26	14 59	0 5	4 40
T 5	6 53	0s56	4 41	1 41	4 15	7 14	1 25	6 53	1 1	2 24	1 8	15 53	2 0	4 45	0 37	16 46	1 47	18 5	14 50	18 3	18 26	15 1	0 6	4 40
F 6	6 31	5 54	5 5	1 18	4 11	6 45	1 25	6 38	1 0	2 29	1 8	15 54	2 0	4 46	0 37	16 46	1 47	18 4	14 50	18 5	18 27	15 3	0 8	4 40
S 7	6 8	10 33	5 10	0 52	4 5	6 16	1 24	6 23	1 0	2 34	1 8	15 55	1 59	4 48	0 37	16 46	1 47	18 3	14 50	18 6	18 28	15 5	0 9	4 40
S 8	5 46	14 35	4 56	0 22	3 57	5 46	1 24	6 7	1 0	2 39	1 7	15 57	1 59	4 49	0 37	16 45	1 47	18 2	14 50	18 6	18 29	15 6	0 10	4 40
M 9	5 23	17 44	4 24	0n10	3 47	5 17	1 24	5 52	0 59	2 44	1 7	15 58	1 59	4 50	0 37	16 45	1 47	18 1	14 50	18 7	18 30	15 8	0 11	4 40
T 10	5 0	19 47	3 36	0 46	3 35	4 47	1 23	5 37	0 59	2 49	1 7	15 59	1 59	4 52	0 37	16 45	1 47	18 1	14 50	18 7	18 31	15 10	0 12	4 40
W11	4 38	20 36	2 36	1 23	3 21	4 17	1 23	5 21	0 59	2 54	1 7	16 1	1 59	4 53	0 37	16 45	1 47	18 0	14 50	18 6	18 31	15 12	0 13	4 40
T 12	4 15	20 10	1 27	2 1	3 5	3 47	1 22	5 6	0 59	2 59	1 7	16 2	1 58	4 54	0 37	16 45	1 47	17 59	14 50	18 6	18 32	15 14	0 15	4 40
F 13	3 52	18 33	0 14	2 40	2 49	3 17	1 22	4 50	0 58	3 4	1 7	16 4	1 58	4 56	0 37	16 45	1 47	17 58	14 50	18 6	18 33	15 15	0 16	4 40
S 14	3 29	15 55	0s58	3 18	2 30	2 46	1 21	4 35	0 58	3 9	1 7	16 5	1 58	4 57	0 37	16 44	1 47	17 57	14 50	18 6	18 34	15 17	0 17	4 40
S 15	3 5	12 30	2 6	3 55	2 11	2 16	1 20	4 19	0 58	3 14	1 7	16 6	1 58	4 59	0 37	16 44	1 47	17 56	14 50	18 7	18 35	15 19	0 18	4 40
M16	2 42	8 32	3 6	4 30	1 52	1 45	1 19	4 4	0 57	3 19	1 7	16 8	1 58	5 0	0 37	16 44	1 47	17 56	14 50	18 8	18 35	15 21	0 19	4 39
T 17	2 19	4 14	3 55	5 3	1 32	1 15	1 18	3 48	0 57	3 24	1 7	16 9	1 57	5 1	0 37	16 44	1 47	17 55	14 50	18 10	18 36	15 22	0 20	4 39
W18	1 56	0n10	4 33	5 32	1 12	0 44	1 18	3 33	0 57	3 29	1 7	16 11	1 57	5 3	0 37	16 43	1 47	17 54	14 51	18 12	18 37	15 24	0 22	4 39
T 19	1 32	4 29	4 57	5 57	0 52	0 14	1 17	3 17	0 57	3 34	1 7	16 12	1 57	5 4	0 37	16 43	1 47	17 53	14 51	18 14	18 38	15 26	0 23	4 39
F 20	1 9	8 33	5 6	6 18	0 33	0s17	1 15	3 1	0 56	3 39	1 7	16 14	1 57	5 6	0 37	16 43	1 47	17 52	14 51	18 16	18 39	15 27	0 24	4 39
S 21	0 46	12 14	5 2	6 35	0 15	0 48	1 14	2 46	0 56	3 44	1 7	16 15	1 57	5 7	0 37	16 43	1 47	17 52	14 51	18 18	18 39	15 29	0 25	4 39
S 22	0 22	15 24	4 46	6 47	0n 3	1 18	1 13	2 30	0 56	3 49	1 7	16 17	1 56	5 9	0 37	16 42	1 47	17 51	14 51	18 20	18 40	15 31	0 26	4 39
M23	0s 1	17 56	4 16	6 54	0 19	1 49	1 12	2 14	0 55	3 54	1 7	16 18	1 56	5 10	0 37	16 42	1 47	17 50	14 51	18 21	18 41	15 33	0 28	4 39
T 24	0 25	19 42	3 36	6 56	0 34	2 20	1 11	1 59	0 55	3 59	1 7	16 20	1 56	5 11	0 37	16 42	1 48	17 50	14 51	18 21	18 42	15 34	0 29	4 39
W25	0 48	20 37	2 46	6 54	0 48	2 50	1 9	1 43	0 55	4 4	1 7	16 21	1 56	5 13	0 37	16 42	1 48	17 49	14 51	18 22	18 43	15 36	0 30	4 38
T 26	1 12	20 35	1 48	6 47	1 1	3 21	1 8	1 27	0 54	4 9	1 6	16 23	1 56	5 14	0 37	16 41	1 48	17 48	14 52	18 21	18 43	15 38	0 31	4 38
F 27	1 35	19 33	0 43	6 35	1 12	3 52	1 7	1 11	0 54	4 15	1 6	16 25	1 56	5 16	0 37	16 41	1 48	17 47	14 52	18 21	18 44	15 40	0 32	4 38
S 28	1 59	17 30	0n25	6 20	1 22	4 22	1 5	0 56	0 54	4 20	1 6	16 26	1 55	5 17	0 37	16 41	1 48	17 47	14 52	18 21	18 45	15 41	0 34	4 38
S 29	2 22	14 28	1 34	6 0	1 30	4 52	1 3	0 40	0 53	4 25	1 6	16 28	1 55	5 19	0 37	16 40	1 48	17 46	14 52	18 21	18 46	15 43	0 35	4 38
M30	2s45	10n34	2n40	5n37	1n38	5s23	1n 2	0n24	0n53	4s30	1n 6	16s29	1n55	5s20	0n37	16n40	1s48	17n45	14n52	18n22	18n46	15n45	0s36	4n38

Julian Day Number = 2349520.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'27, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'27, Lahiri = 19°57'27Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

OCTOBER 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 39 24	7♎55'13	23♍20	20♍58	17♎19	1♎41	14♎11	22♏17	15♎ 2	22°R25	19♍38	7°R35	6♌ 3	0♊49	17°R41	T 1
W 2	0 43 20	8°54'25	7♎46	22°24	18°34	2°20	14°24	22°23	15° 5	22♉24	19°40	7♌27	6° 0	0°55	17♓38	W 2
T 3	0 47 17	9°53'39	22°29	23°53	19°49	2°59	14°37	22°28	15° 9	22°23	19°42	7°17	5°57	1° 2	17°35	T 3
F 4	0 51 14	10°52'54	7♏21	25°26	21° 4	3°38	14°50	22°34	15°13	22°22	19°44	7° 7	5°53	1° 9	17°33	F 4
S 5	0 55 10	11°52'12	22°12	27° 2	22°18	4°17	15° 3	22°40	15°17	22°21	19°46	6°58	5°50	1°15	17°30	S 5
S 6	0 59 7	12°51'32	6♐55	28°39	23°33	4°57	15°16	22°46	15°20	22°19	19°48	6°52	5°47	1°22	17°28	S 6
M 7	1 3 3	13°50'53	21°24	0♎19	24°48	5°36	15°29	22°52	15°24	22°18	19°50	6°47	5°44	1°29	17°25	M 7
T 8	1 7 0	14°50'17	5♑35	1°59	26° 3	6°15	15°42	22°58	15°28	22°17	19°52	6°45	5°41	1°36	17°23	T 8
W 9	1 10 56	15°49'42	19°27	3°41	27°18	6°54	15°55	23° 4	15°32	22°16	19°54	6°D45	5°38	1°42	17°21	W 9
T 10	1 14 53	16°49'09	3♒ 1	5°24	28°33	7°33	16° 8	23°10	15°36	22°14	19°56	6°R45	5°34	1°49	17°18	T 10
F 11	1 18 49	17°48'37	16°18	7° 7	29°47	8°12	16°21	23°17	15°39	22°13	19°58	6°45	5°31	1°56	17°16	F 11
S 12	1 22 46	18°48'07	29°21	8°50	1♏ 2	8°52	16°34	23°23	15°43	22°12	20° 0	6°43	5°28	2° 2	17°13	S 12
S 13	1 26 43	19°47'39	12♓11	10°34	2°17	9°31	16°47	23°29	15°47	22°10	20° 2	6°38	5°25	2° 9	17°11	S 13
M14	1 30 39	20°47'13	24°51	12°17	3°32	10°10	17° 0	23°36	15°51	22° 9	20° 4	6°31	5°22	2°16	17° 9	M14
T 15	1 34 36	21°46'49	7♈20	14° 1	4°47	10°50	17°13	23°42	15°54	22° 8	20° 6	6°20	5°18	2°23	17° 7	T 15
W16	1 38 32	22°46'27	19°40	15°44	6° 1	11°29	17°26	23°48	15°58	22° 6	20° 8	6° 8	5°15	2°29	17° 5	W16
T 17	1 42 29	23°46'06	1♉51	17°27	7°16	12° 8	17°39	23°55	16° 2	22° 5	20°10	5°54	5°12	2°36	17° 2	T 17
F 18	1 46 25	24°45'48	13°55	19° 9	8°31	12°48	17°52	24° 1	16° 6	22° 3	20°12	5°40	5° 9	2°43	17° 0	F 18
S 19	1 50 22	25°45'32	25°51	20°51	9°46	13°27	18° 5	24° 8	16°10	22° 2	20°14	5°27	5° 6	2°49	16°58	S 19
S 20	1 54 18	26°45'18	7♊43	22°33	11° 1	14° 7	18°18	24°14	16°13	22° 0	20°16	5°17	5° 3	2°56	16°56	S 20
M21	1 58 15	27°45'06	19°32	24°14	12°16	14°46	18°31	24°21	16°17	21°59	20°18	5° 8	4°59	3° 3	16°54	M21
T 22	2 2 12	28°44'57	1♋22	25°55	13°30	15°26	18°44	24°28	16°21	21°57	20°20	5° 3	4°56	3° 9	16°52	T 22
W23	2 6 8	29°44'50	13°18	27°35	14°45	16° 5	18°57	24°34	16°24	21°56	20°21	5° 1	4°53	3°16	16°50	W23
T 24	2 10 5	0♏44'44	25°24	29°15	16° 0	16°45	19°10	24°41	16°28	21°54	20°23	5° 0	4°50	3°23	16°49	T 24
F 25	2 14 1	1°44'41	7♌45	0♏54	17°15	17°24	19°22	24°48	16°32	21°53	20°25	5° 0	4°47	3°30	16°47	F 25
S 26	2 17 58	2°44'41	20°28	2°33	18°30	18° 4	19°35	24°54	16°35	21°51	20°27	4°59	4°44	3°36	16°45	S 26
S 27	2 21 54	3°44'42	3♍36	4°11	19°44	18°44	19°48	25° 1	16°39	21°49	20°28	4°57	4°40	3°43	16°43	S 27
M28	2 25 51	4°44'46	17°12	5°49	20°59	19°23	20° 1	25° 8	16°43	21°48	20°30	4°53	4°37	3°50	16°42	M28
T 29	2 29 47	5°44'51	1♎19	7°26	22°14	20° 3	20°14	25°15	16°46	21°46	20°32	4°45	4°34	3°56	16°40	T 29
W30	2 33 44	6°44'59	15°54	9° 3	23°29	20°43	20°27	25°22	16°50	21°45	20°33	4°36	4°31	4° 3	16°38	W30
T 31	2 37 41	7♏45'08	0♏51	10♏39	24♏44	21♎22	20♎39	25♏29	16♎54	21♉43	20♍35	4♌24	4♌28	4♊10	16♓37	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	3s 9	5n59	3n38	5n10	1n44	5s53	1n 0	0n 8	0n53	4s35	1n 6	16s31	1n55	5s22	0n37	16n40	1s48	17n45	14n52	18n24	18n47	15n46	0s37	4n37
W 2	3 32	0 57	4 24	4 41	1 48	6 23	0 59	0s 8	0 52	4 40	1 6	16 33	1 55	5 23	0 37	16 40	1 48	17 44	14 53	18 26	18 48	15 48	0 38	4 37
T 3	3 55	4s13	4 53	4 9	1 52	6 53	0 57	0 24	0 52	4 45	1 6	16 34	1 55	5 25	0 37	16 39	1 48	17 43	14 53	18 29	18 49	15 50	0 39	4 37
F 4	4 19	9 12	5 3	3 34	1 55	7 23	0 55	0 39	0 52	4 50	1 6	16 36	1 54	5 26	0 37	16 39	1 48	17 43	14 53	18 31	18 50	15 52	0 41	4 37
S 5	4 42	13 38	4 53	2 58	1 56	7 52	0 53	0 55	0 51	4 55	1 6	16 37	1 54	5 27	0 37	16 39	1 48	17 42	14 53	18 33	18 50	15 53	0 42	4 37
S 6	5 5	17 11	4 23	2 20	1 57	8 22	0 51	1 11	0 51	5 0	1 6	16 39	1 54	5 29	0 37	16 38	1 48	17 41	14 54	18 35	18 51	15 55	0 43	4 37
M 7	5 28	19 36	3 37	1 40	1 57	8 51	0 49	1 27	0 51	5 5	1 6	16 41	1 54	5 30	0 37	16 38	1 48	17 41	14 54	18 36	18 52	15 57	0 44	4 36
T 8	5 51	20 44	2 38	0 59	1 56	9 20	0 47	1 43	0 50	5 10	1 6	16 42	1 54	5 32	0 37	16 37	1 48	17 40	14 54	18 37	18 53	15 58	0 45	4 36
W 9	6 14	20 34	1 31	0 17	1 55	9 49	0 45	1 59	0 50	5 15	1 6	16 44	1 54	5 33	0 37	16 37	1 48	17 40	14 54	18 37	18 54	16 0	0 46	4 36
T 10	6 37	19 11	0 20	0s25	1 53	10 18	0 43	2 14	0 50	5 20	1 6	16 46	1 53	5 35	0 37	16 37	1 48	17 39	14 55	18 37	18 54	16 2	0 47	4 36
F 11	7 0	16 47	0s50	1 9	1 50	10 46	0 41	2 30	0 49	5 25	1 6	16 47	1 53	5 36	0 37	16 36	1 48	17 39	14 55	18 37	18 55	16 3	0 48	4 36
S 12	7 23	13 32	1 57	1 53	1 47	11 15	0 39	2 46	0 49	5 30	1 6	16 49	1 53	5 38	0 37	16 36	1 48	17 38	14 55	18 37	18 56	16 5	0 50	4 35
S 13	7 45	9 42	2 56	2 37	1 43	11 42	0 37	3 2	0 49	5 35	1 6	16 51	1 53	5 39	0 37	16 36	1 48	17 37	14 55	18 38	18 57	16 7	0 51	4 35
M14	8 8	5 30	3 45	3 21	1 39	12 10	0 35	3 18	0 48	5 40	1 6	16 53	1 53	5 41	0 37	16 35	1 48	17 37	14 56	18 40	18 57	16 9	0 52	4 35
T 15	8 30	1 7	4 23	4 5	1 34	12 37	0 32	3 33	0 48	5 45	1 6	16 54	1 53	5 42	0 37	16 35	1 48	17 36	14 56	18 43	18 58	16 10	0 53	4 35
W16	8 52	3n15	4 48	4 50	1 29	13 4	0 30	3 49	0 47	5 50	1 6	16 56	1 53	5 44	0 37	16 34	1 48	17 36	14 56	18 46	18 59	16 12	0 54	4 35
T 17	9 14	7 27	4 59	5 34	1 24	13 31	0 28	4 5	0 47	5 55	1 6	16 58	1 53	5 45	0 37	16 34	1 48	17 35	14 57	18 49	19 0	16 14	0 55	4 34
F 18	9 36	11 18	4 57	6 18	1 19	13 58	0 26	4 21	0 47	6 0	1 6	16 59	1 52	5 46	0 37	16 34	1 48	17 35	14 57	18 53	19 0	16 15	0 56	4 34
S 19	9 58	14 41	4 42	7 2	1 13	14 24	0 23	4 36	0 46	6 5	1 6	17 1	1 52	5 48	0 37	16 33	1 48	17 35	14 57	18 56	19 1	16 17	0 57	4 34
S 20	10 20	17 27	4 14	7 45	1 7	14 49	0 21	4 52	0 46	6 10	1 6	17 3	1 52	5 49	0 37	16 33	1 48	17 34	14 58	18 59	19 2	16 19	0 58	4 34
M21	10 41	19 29	3 36	8 28	1 1	15 15	0 18	5 8	0 46	6 15	1 6	17 5	1 52	5 51	0 37	16 32	1 49	17 34	14 58	19 1	19 3	16 20	0 59	4 33
T 22	11 3	20 40	2 48	9 11	0 55	15 40	0 16	5 23	0 45	6 20	1 6	17 6	1 52	5 52	0 37	16 32	1 49	17 33	14 58	19 2	19 4	16 22	1 0	4 33
W23	11 24	20 57	1 52	9 53	0 48	16 4	0 14	5 39	0 45	6 25	1 6	17 8	1 52	5 54	0 37	16 32	1 49	17 33	14 59	19 2	19 4	16 24	1 1	4 33
T 24	11 45	20 16	0 51	10 34	0 42	16 28	0 11	5 54	0 44	6 29	1 6	17 10	1 52	5 55	0 37	16 31	1 49	17 32	14 59	19 3	19 5	16 25	1 2	4 33
F 25	12 6	18 36	0n15	11 15	0 35	16 52	0 9	6 10	0 44	6 34	1 6	17 11	1 52	5 56	0 37	16 31	1 49	17 32	14 59	19 3	19 6	16 27	1 3	4 32
S 26	12 27	15 58	1 21	11 55	0 29	17 15	0 6	6 25	0 44	6 39	1 6	17 13	1 51	5 58	0 37	16 30	1 49	17 32	15 0	19 3	19 7	16 29	1 4	4 32
S 27	12 47	12 27	2 25	12 35	0 22	17 38	0 4	6 41	0 43	6 44	1 6	17 15	1 51	5 59	0 37	16 30	1 49	17 31	15 0	19 3	19 7	16 30	1 5	4 32
M28	13 7	8 11	3 23	13 14	0 16	18 1	0 1	6 56	0 43	6 49	1 6	17 17	1 51	6 1	0 37	16 30	1 49	17 31	15 0	19 4	19 8	16 32	1 5	4 32
T 29	13 27	3 19	4 11	13 52	0 9	18 23	0s 1	7 12	0 42	6 54	1 6	17 18	1 51	6 2	0 37	16 29	1 49	17 31	15 1	19 6	19 9	16 33	1 6	4 31
W30	13 47	1s53	4 45	14 30	0 2	18 44	0 4	7 27	0 42	6 58	1 6	17 20	1 51	6 3	0 37	16 29	1 49	17 30	15 1	19 8	19 10	16 35	1 7	4 31
T 31	14s 7	7s 6	5n 0	15s 7	0s 5	19s 5	0s 6	7s42	0n42	7s 3	1n 6	17s22	1n51	6s 5	0n37	16n28	1s49	17n30	15n 2	19n11	19n10	16n37	1s 8	4n31

Julian Day Number = 2349550.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'27, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'31, Lahiri = 19°57'31Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

NOVEMBER 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 41 37	8♏45'20	16♏ 2	12♏15	25♏59	22♎ 2	20♎52	25♏35	16♎57	21°R41	20♍37	4°R13	4♌24	4♊17	16°R35	F 1
S 2	2 45 34	9°45'33	1♐15	13°51	27°14	22°42	21° 5	25°42	17° 1	21♉40	20°38	4♌ 2	4°21	4°23	16♓34	S 2
S 3	2 49 30	10°45'48	16°20	15°26	28°28	23°22	21°18	25°49	17° 4	21°38	20°40	3°53	4°18	4°30	16°33	S 3
M 4	2 53 27	11°46'05	1♑ 8	17° 1	29°43	24° 2	21°30	25°56	17° 8	21°36	20°41	3°48	4°15	4°37	16°31	M 4
T 5	2 57 23	12°46'23	15°33	18°35	0♐58	24°42	21°43	26° 3	17°11	21°35	20°43	3°45	4°12	4°43	16°30	T 5
W 6	3 1 20	13°46'43	29°33	20°10	2°13	25°22	21°55	26°10	17°15	21°33	20°44	3°D44	4° 9	4°50	16°29	W 6
T 7	3 5 16	14°47'04	13♒ 9	21°43	3°28	26° 2	22° 8	26°17	17°18	21°31	20°46	3°R44	4° 5	4°57	16°28	T 7
F 8	3 9 13	15°47'27	26°22	23°17	4°42	26°41	22°20	26°24	17°22	21°30	20°47	3°43	4° 2	5° 3	16°27	F 8
S 9	3 13 10	16°47'50	9♓15	24°50	5°57	27°21	22°33	26°31	17°25	21°28	20°49	3°41	3°59	5°10	16°26	S 9
S 10	3 17 6	17°48'15	21°53	26°23	7°12	28° 2	22°45	26°38	17°29	21°26	20°50	3°37	3°56	5°17	16°25	S 10
M11	3 21 3	18°48'42	4♈19	27°55	8°27	28°42	22°58	26°46	17°32	21°25	20°52	3°30	3°53	5°24	16°24	M11
T 12	3 24 59	19°49'10	16°34	29°28	9°42	29°22	23°10	26°53	17°35	21°23	20°53	3°20	3°50	5°30	16°23	T 12
W13	3 28 56	20°49'39	28°42	1♐ 0	10°56	0♏ 2	23°22	27° 0	17°39	21°21	20°54	3° 7	3°46	5°37	16°22	W13
T 14	3 32 52	21°50'10	10♉43	2°31	12°11	0°42	23°35	27° 7	17°42	21°20	20°56	2°54	3°43	5°44	16°21	T 14
F 15	3 36 49	22°50'42	22°40	4° 3	13°26	1°22	23°47	27°14	17°45	21°18	20°57	2°40	3°40	5°50	16°20	F 15
S 16	3 40 45	23°51'16	4♊33	5°34	14°41	2° 2	23°59	27°21	17°49	21°16	20°58	2°27	3°37	5°57	16°20	S 16
S 17	3 44 42	24°51'52	16°23	7° 5	15°55	2°43	24°11	27°28	17°52	21°14	20°59	2°17	3°34	6° 4	16°19	S 17
M18	3 48 39	25°52'29	28°13	8°36	17°10	3°23	24°23	27°35	17°55	21°13	21° 0	2° 9	3°30	6°10	16°19	M18
T 19	3 52 35	26°53'07	10♋ 5	10° 7	18°25	4° 3	24°35	27°42	17°58	21°11	21° 2	2° 4	3°27	6°17	16°18	T 19
W20	3 56 32	27°53'48	22° 2	11°37	19°40	4°43	24°47	27°49	18° 1	21° 9	21° 3	2° 1	3°24	6°24	16°18	W20
T 21	4 0 28	28°54'29	4♌ 8	13° 7	20°54	5°24	24°59	27°57	18° 4	21° 8	21° 4	2°D 0	3°21	6°31	16°17	T 21
F 22	4 4 25	29°55'13	16°27	14°36	22° 9	6° 4	25°11	28° 4	18° 8	21° 6	21° 5	2° 1	3°18	6°37	16°17	F 22
S 23	4 8 21	0♐55'58	29° 5	16° 6	23°24	6°45	25°23	28°11	18°11	21° 4	21° 6	2°R 2	3°15	6°44	16°17	S 23
S 24	4 12 18	1°56'44	12♍ 7	17°34	24°39	7°25	25°34	28°18	18°14	21° 3	21° 7	2° 1	3°11	6°51	16°17	S 24
M25	4 16 14	2°57'32	25°35	19° 3	25°53	8° 6	25°46	28°25	18°17	21° 1	21° 8	1°59	3° 8	6°57	16°16	M25
T 26	4 20 11	3°58'22	9♎33	20°31	27° 8	8°46	25°58	28°32	18°19	20°59	21° 9	1°54	3° 5	7° 4	16°16	T 26
W27	4 24 8	4°59'13	24° 0	21°58	28°23	9°27	26° 9	28°39	18°22	20°58	21°10	1°47	3° 2	7°11	16°D16	W27
T 28	4 28 4	6° 0'05	8♏53	23°24	29°37	10° 7	26°21	28°46	18°25	20°56	21°11	1°39	2°59	7°17	16°16	T 28
F 29	4 32 1	7° 0'59	24° 4	24°50	0♑52	10°48	26°32	28°53	18°28	20°54	21°11	1°30	2°55	7°24	16°16	F 29
S 30	4 35 57	8♐ 1'54	9♐24	26♐15	2♑ 7	11♏28	26♎43	29♏ 0	18♎31	20♉53	21♍12	1♌22	2♌52	7♊31	16♓16	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
F 1	14s26	11s58	4n54	15s43	0s11	19s25	0s 9	7s58	0n41	7s 8	1n 6	17s23	1n51	6s 6	0n37	16n28	1s49	17n30	15n 2	19n14	19n11	16n38	1s 9	4n30
S 2	14 46	16 5	4 27	16 18	0 18	19 45	0 12	8 13	0 41	7 13	1 7	17 25	1 51	6 7	0 37	16 27	1 49	17 30	15 2	19 17	19 12	16 40	1 10	4 30
S 3	15 5	19 5	3 42	16 53	0 25	20 5	0 14	8 28	0 40	7 17	1 7	17 27	1 51	6 9	0 37	16 27	1 49	17 29	15 3	19 19	19 13	16 42	1 10	4 30
M 4	15 23	20 45	2 43	17 26	0 31	20 23	0 17	8 43	0 40	7 22	1 7	17 29	1 51	6 10	0 37	16 27	1 49	17 29	15 3	19 20	19 13	16 43	1 11	4 30
T 5	15 42	21 0	1 35	17 59	0 38	20 42	0 19	8 58	0 39	7 27	1 7	17 30	1 51	6 12	0 37	16 26	1 49	17 29	15 4	19 21	19 14	16 45	1 12	4 29
W 6	16 0	19 55	0 22	18 31	0 44	20 59	0 22	9 13	0 39	7 31	1 7	17 32	1 50	6 13	0 37	16 26	1 49	17 29	15 4	19 21	19 15	16 47	1 13	4 29
T 7	16 18	17 41	0s50	19 2	0 50	21 16	0 24	9 28	0 39	7 36	1 7	17 34	1 50	6 14	0 37	16 25	1 49	17 28	15 4	19 21	19 16	16 48	1 13	4 29
F 8	16 35	14 35	1 57	19 32	0 57	21 33	0 27	9 43	0 38	7 41	1 7	17 35	1 50	6 15	0 37	16 25	1 49	17 28	15 5	19 21	19 16	16 50	1 14	4 28
S 9	16 53	10 50	2 56	20 1	1 3	21 49	0 29	9 58	0 38	7 45	1 7	17 37	1 50	6 17	0 37	16 24	1 49	17 28	15 5	19 21	19 17	16 51	1 15	4 28
S 10	17 10	6 40	3 46	20 29	1 9	22 4	0 32	10 13	0 37	7 50	1 7	17 39	1 50	6 18	0 37	16 24	1 49	17 28	15 6	19 22	19 18	16 53	1 15	4 28
M11	17 27	2 19	4 23	20 56	1 15	22 19	0 34	10 27	0 37	7 54	1 7	17 40	1 50	6 19	0 37	16 23	1 49	17 28	15 6	19 24	19 19	16 55	1 16	4 28
T 12	17 43	2n 5	4 48	21 22	1 20	22 33	0 37	10 42	0 36	7 59	1 7	17 42	1 50	6 21	0 37	16 23	1 49	17 28	15 7	19 26	19 19	16 56	1 17	4 27
W13	17 59	6 21	5 0	21 47	1 26	22 46	0 39	10 56	0 36	8 3	1 7	17 44	1 50	6 22	0 37	16 23	1 49	17 28	15 7	19 29	19 20	16 58	1 17	4 27
T 14	18 15	10 20	4 58	22 11	1 31	22 59	0 42	11 11	0 35	8 8	1 7	17 45	1 50	6 23	0 37	16 22	1 49	17 27	15 8	19 32	19 21	17 0	1 18	4 27
F 15	18 31	13 54	4 43	22 34	1 37	23 11	0 44	11 25	0 35	8 12	1 7	17 47	1 50	6 24	0 37	16 22	1 49	17 27	15 8	19 36	19 22	17 1	1 18	4 26
S 16	18 46	16 53	4 16	22 56	1 42	23 22	0 47	11 40	0 34	8 16	1 7	17 49	1 50	6 26	0 37	16 21	1 49	17 27	15 9	19 38	19 22	17 3	1 19	4 26
S 17	19 1	19 10	3 38	23 17	1 47	23 32	0 49	11 54	0 34	8 21	1 7	17 50	1 50	6 27	0 37	16 21	1 49	17 27	15 9	19 41	19 23	17 4	1 19	4 26
M18	19 15	20 38	2 50	23 36	1 51	23 42	0 51	12 8	0 33	8 25	1 7	17 52	1 50	6 28	0 37	16 20	1 49	17 27	15 9	19 43	19 24	17 6	1 20	4 25
T 19	19 29	21 12	1 54	23 54	1 56	23 52	0 54	12 22	0 33	8 30	1 8	17 54	1 50	6 29	0 37	16 20	1 49	17 27	15 10	19 44	19 25	17 8	1 20	4 25
W20	19 43	20 48	0 53	24 11	2 0	24 0	0 56	12 36	0 32	8 34	1 8	17 55	1 50	6 30	0 37	16 20	1 49	17 27	15 10	19 44	19 25	17 9	1 21	4 25
T 21	19 57	19 26	0n11	24 27	2 4	24 8	0 58	12 50	0 32	8 38	1 8	17 57	1 50	6 32	0 37	16 19	1 49	17 27	15 11	19 44	19 26	17 11	1 21	4 24
F 22	20 10	17 9	1 16	24 41	2 7	24 15	1 0	13 4	0 31	8 42	1 8	17 59	1 50	6 33	0 37	16 19	1 49	17 27	15 11	19 44	19 27	17 12	1 22	4 24
S 23	20 22	13 59	2 20	24 55	2 10	24 21	1 3	13 18	0 31	8 47	1 8	18 0	1 50	6 34	0 37	16 18	1 49	17 27	15 12	19 44	19 28	17 14	1 22	4 24
S 24	20 35	10 4	3 17	25 6	2 13	24 27	1 5	13 32	0 31	8 51	1 8	18 2	1 49	6 35	0 37	16 18	1 49	17 27	15 12	19 44	19 28	17 15	1 22	4 24
M25	20 47	5 32	4 6	25 17	2 16	24 32	1 7	13 45	0 30	8 55	1 8	18 3	1 49	6 36	0 37	16 17	1 49	17 27	15 13	19 45	19 29	17 17	1 23	4 23
T 26	20 58	0 33	4 43	25 26	2 18	24 36	1 9	13 59	0 29	8 59	1 8	18 5	1 49	6 37	0 37	16 17	1 49	17 28	15 13	19 46	19 30	17 19	1 23	4 23
W27	21 10	4s38	5 3	25 34	2 20	24 39	1 11	14 12	0 29	9 3	1 8	18 7	1 49	6 38	0 37	16 17	1 49	17 28	15 14	19 47	19 31	17 20	1 23	4 23
T 28	21 20	9 41	5 3	25 40	2 21	24 42	1 13	14 25	0 28	9 7	1 8	18 8	1 49	6 39	0 37	16 16	1 49	17 28	15 15	19 49	19 31	17 22	1 24	4 22
F 29	21 31	14 15	4 42	25 45	2 22	24 43	1 15	14 39	0 28	9 11	1 8	18 10	1 49	6 40	0 37	16 16	1 49	17 28	15 15	19 51	19 32	17 23	1 24	4 22
S 30	21s41	17s55	4n 1	25s48	2s23	24s44	1s17	14s52	0n27	9s15	1n 8	18s11	1n49	6s41	0n37	16n15	1s49	17n28	15n16	19n53	19n33	17n25	1s24	4n22

Julian Day Number = 2349581.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'27, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'35, Lahiri = 19°57'36Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1720
geocentric

DECEMBER 1720 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 39 54	9♐ 2'50	24♐41	27♐39	3♑22	12♏ 9	26♎54	29♏ 8	18♎34	20°R51	21♍13	1°R15	2♌49	7♊38	16♓17	S 1
M 2	4 43 50	10° 3'48	9♑43	29° 1	4°36	12°50	27° 6	29°15	18°36	20♑50	21°14	1♌11	2°46	7°44	16°17	M 2
T 3	4 47 47	11° 4'46	24°24	0♑22	5°51	13°30	27°17	29°22	18°39	20°48	21°15	1°D 9	2°43	7°51	16°17	T 3
W 4	4 51 43	12° 5'44	8♒38	1°41	7° 5	14°11	27°28	29°29	18°42	20°47	21°15	1° 9	2°40	7°58	16°18	W 4
T 5	4 55 40	13° 6'43	22°25	2°59	8°20	14°52	27°39	29°36	18°44	20°45	21°16	1°10	2°36	8° 4	16°18	T 5
F 6	4 59 37	14° 7'43	5♓44	4°14	9°35	15°33	27°50	29°43	18°47	20°43	21°16	1°11	2°33	8°11	16°19	F 6
S 7	5 3 33	15° 8'44	18°40	5°26	10°49	16°14	28° 0	29°50	18°49	20°42	21°17	1°R11	2°30	8°18	16°19	S 7
S 8	5 7 30	16° 9'45	1♈16	6°35	12° 4	16°54	28°11	29°57	18°52	20°40	21°18	1°10	2°27	8°24	16°20	S 8
M 9	5 11 26	17°10'46	13°36	7°41	13°19	17°35	28°22	0♐ 3	18°54	20°39	21°18	1° 7	2°24	8°31	16°20	M 9
T 10	5 15 23	18°11'48	25°44	8°42	14°33	18°16	28°32	0°10	18°57	20°38	21°19	1° 1	2°21	8°38	16°21	T 10
W11	5 19 19	19°12'51	7♉44	9°39	15°48	18°57	28°43	0°17	18°59	20°36	21°19	0°54	2°17	8°45	16°22	W11
T 12	5 23 16	20°13'54	19°38	10°30	17° 2	19°38	28°53	0°24	19° 1	20°35	21°19	0°46	2°14	8°51	16°23	T 12
F 13	5 27 12	21°14'58	1♊30	11°15	18°17	20°19	29° 3	0°31	19° 3	20°33	21°20	0°38	2°11	8°58	16°24	F 13
S 14	5 31 9	22°16'02	13°21	11°53	19°31	21° 0	29°13	0°38	19° 6	20°32	21°20	0°31	2° 8	9° 5	16°25	S 14
S 15	5 35 6	23°17'07	25°13	12°23	20°46	21°41	29°23	0°44	19° 8	20°30	21°21	0°25	2° 5	9°11	16°26	S 15
M16	5 39 2	24°18'12	7♋ 7	12°44	22° 0	22°22	29°33	0°51	19°10	20°29	21°21	0°20	2° 1	9°18	16°27	M16
T 17	5 42 59	25°19'18	19° 6	12°56	23°14	23° 4	29°43	0°58	19°12	20°28	21°21	0°18	1°58	9°25	16°28	T 17
W18	5 46 55	26°20'24	1♌11	12°R56	24°29	23°45	29°53	1° 5	19°14	20°26	21°21	0°D17	1°55	9°31	16°29	W18
T 19	5 50 52	27°21'32	13°25	12°46	25°43	24°26	0♏ 3	1°11	19°16	20°25	21°21	0°18	1°52	9°38	16°30	T 19
F 20	5 54 48	28°22'39	25°51	12°24	26°58	25° 7	0°12	1°18	19°18	20°24	21°22	0°19	1°49	9°45	16°32	F 20
S 21	5 58 45	29°23'47	8♍32	11°50	28°12	25°48	0°22	1°24	19°20	20°23	21°22	0°21	1°46	9°52	16°33	S 21
S 22	6 2 41	0♑24'56	21°32	11° 5	29°26	26°30	0°31	1°31	19°22	20°21	21°22	0°22	1°42	9°58	16°34	S 22
M23	6 6 38	1°26'06	4♎54	10° 9	0♒41	27°11	0°40	1°38	19°23	20°20	21°22	0°R23	1°39	10° 5	16°36	M23
T 24	6 10 35	2°27'15	18°40	9° 3	1°55	27°52	0°49	1°44	19°25	20°19	21°R22	0°22	1°36	10°12	16°37	T 24
W25	6 14 31	3°28'26	2♏51	7°50	3° 9	28°34	0°58	1°50	19°27	20°18	21°22	0°19	1°33	10°18	16°39	W25
T 26	6 18 28	4°29'37	17°26	6°32	4°23	29°15	1° 7	1°57	19°28	20°17	21°22	0°16	1°30	10°25	16°40	T 26
F 27	6 22 24	5°30'48	2♐20	5°10	5°38	29°57	1°16	2° 3	19°30	20°16	21°22	0°12	1°27	10°32	16°42	F 27
S 28	6 26 21	6°32'00	17°26	3°49	6°52	0♐38	1°25	2°10	19°31	20°15	21°22	0° 9	1°23	10°38	16°44	S 28
S 29	6 30 17	7°33'12	2♑34	2°30	8° 6	1°20	1°33	2°16	19°33	20°14	21°21	0° 6	1°20	10°45	16°46	S 29
M30	6 34 14	8°34'24	17°36	1°16	9°20	2° 1	1°42	2°22	19°34	20°13	21°21	0° 5	1°17	10°52	16°47	M30
T 31	6 38 10	9♑35'36	2♒21	0♑ 9	10♒34	2♐43	1♏50	2♐28	19♎36	20♑12	21♍21	0°D 4	1♌14	10♊58	16♓49	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	21s50	20s19	3n 3	25s50	2s23	24s45	1s19	15s 5	0n27	9s19	1n 9	18s13	1n49	6s43	0n37	16n15	1s49	17n28	15n16	19n55	19n33	17n26	1s24	4n21
M 2	21 59	21 15	1 53	25 50	2 22	24 44	1 21	15 18	0 26	9 23	1 9	18 14	1 49	6 44	0 37	16 15	1 48	17 28	15 17	19 56	19 34	17 28	1 25	4 21
T 3	22 8	20 40	0 36	25 49	2 21	24 43	1 23	15 30	0 26	9 27	1 9	18 16	1 49	6 45	0 37	16 14	1 48	17 29	15 17	19 56	19 35	17 30	1 25	4 21
W 4	22 16	18 47	0s40	25 47	2 19	24 41	1 24	15 43	0 25	9 31	1 9	18 17	1 49	6 45	0 37	16 14	1 48	17 29	15 18	19 56	19 36	17 31	1 25	4 20
T 5	22 24	15 50	1 52	25 43	2 16	24 38	1 26	15 56	0 25	9 35	1 9	18 19	1 49	6 46	0 37	16 13	1 48	17 29	15 18	19 56	19 36	17 33	1 25	4 20
F 6	22 32	12 9	2 56	25 37	2 13	24 35	1 28	16 8	0 24	9 38	1 9	18 20	1 49	6 47	0 37	16 13	1 48	17 29	15 19	19 55	19 37	17 34	1 25	4 20
S 7	22 39	7 59	3 48	25 31	2 9	24 31	1 29	16 20	0 24	9 42	1 9	18 22	1 49	6 48	0 37	16 13	1 48	17 30	15 19	19 55	19 38	17 36	1 25	4 19
S 8	22 45	3 36	4 28	25 22	2 4	24 26	1 31	16 32	0 23	9 46	1 9	18 23	1 49	6 49	0 38	16 12	1 48	17 30	15 20	19 56	19 39	17 37	1 25	4 19
M 9	22 51	0n51	4 55	25 13	1 58	24 20	1 32	16 45	0 23	9 50	1 9	18 25	1 49	6 50	0 38	16 12	1 48	17 30	15 20	19 56	19 39	17 39	1 25	4 19
T 10	22 57	5 11	5 8	25 2	1 51	24 14	1 33	16 57	0 22	9 53	1 10	18 26	1 49	6 51	0 38	16 12	1 48	17 30	15 21	19 58	19 40	17 40	1 25	4 18
W11	23 2	9 16	5 7	24 50	1 43	24 6	1 35	17 8	0 21	9 57	1 10	18 28	1 49	6 52	0 38	16 11	1 48	17 31	15 21	19 59	19 41	17 42	1 25	4 18
T 12	23 7	12 58	4 53	24 37	1 34	23 58	1 36	17 20	0 21	10 0	1 10	18 29	1 49	6 53	0 38	16 11	1 48	17 31	15 22	20 1	19 41	17 43	1 25	4 18
F 13	23 11	16 9	4 26	24 23	1 24	23 50	1 37	17 32	0 20	10 4	1 10	18 30	1 49	6 54	0 38	16 11	1 48	17 31	15 23	20 3	19 42	17 45	1 25	4 18
S 14	23 15	18 40	3 48	24 9	1 12	23 40	1 38	17 43	0 20	10 7	1 10	18 32	1 49	6 54	0 38	16 10	1 48	17 32	15 23	20 4	19 43	17 46	1 25	4 17
S 15	23 18	20 24	2 59	23 53	1 0	23 30	1 39	17 54	0 19	10 11	1 10	18 33	1 49	6 55	0 38	16 10	1 48	17 32	15 24	20 6	19 44	17 48	1 25	4 17
M16	23 21	21 14	2 3	23 37	0 46	23 20	1 40	18 5	0 19	10 14	1 10	18 34	1 49	6 56	0 38	16 10	1 48	17 32	15 24	20 6	19 44	17 50	1 25	4 17
T 17	23 23	21 7	1 1	23 21	0 30	23 8	1 41	18 16	0 18	10 17	1 11	18 36	1 49	6 57	0 38	16 9	1 48	17 33	15 25	20 7	19 45	17 51	1 25	4 16
W18	23 25	20 0	0n 5	23 4	0 14	22 56	1 42	18 27	0 17	10 21	1 11	18 37	1 49	6 57	0 38	16 9	1 48	17 33	15 25	20 7	19 46	17 53	1 25	4 16
T 19	23 27	17 57	1 11	22 48	0n 4	22 43	1 43	18 38	0 17	10 24	1 11	18 38	1 50	6 58	0 38	16 9	1 48	17 34	15 26	20 7	19 46	17 54	1 24	4 16
F 20	23 28	15 3	2 15	22 32	0 22	22 29	1 44	18 49	0 16	10 27	1 11	18 40	1 50	6 59	0 38	16 8	1 48	17 34	15 26	20 7	19 47	17 56	1 24	4 15
S 21	23 28	11 23	3 14	22 15	0 42	22 15	1 44	18 59	0 16	10 30	1 11	18 41	1 50	7 0	0 38	16 8	1 48	17 35	15 27	20 6	19 48	17 57	1 24	4 15
S 22	23 28	7 7	4 5	22 0	1 1	22 0	1 45	19 9	0 15	10 33	1 11	18 42	1 50	7 0	0 38	16 8	1 48	17 35	15 27	20 6	19 49	17 59	1 24	4 15
M23	23 28	2 24	4 44	21 44	1 21	21 45	1 45	19 19	0 14	10 37	1 11	18 44	1 50	7 1	0 38	16 8	1 48	17 36	15 28	20 6	19 49	18 0	1 23	4 15
T 24	23 27	2s35	5 8	21 30	1 41	21 29	1 46	19 29	0 14	10 40	1 12	18 45	1 50	7 2	0 38	16 7	1 48	17 36	15 29	20 6	19 50	18 2	1 23	4 14
W25	23 26	7 34	5 14	21 16	1 59	21 12	1 46	19 39	0 13	10 43	1 12	18 46	1 50	7 2	0 38	16 7	1 48	17 37	15 29	20 7	19 51	18 3	1 23	4 14
T 26	23 24	12 15	5 0	21 3	2 16	20 55	1 46	19 49	0 13	10 46	1 12	18 47	1 50	7 3	0 38	16 7	1 48	17 37	15 30	20 7	19 51	18 5	1 22	4 14
F 27	23 22	16 18	4 26	20 51	2 32	20 37	1 47	19 58	0 12	10 48	1 12	18 48	1 50	7 3	0 38	16 7	1 48	17 38	15 30	20 8	19 52	18 6	1 22	4 13
S 28	23 19	19 20	3 34	20 40	2 45	20 18	1 47	20 8	0 11	10 51	1 12	18 50	1 50	7 4	0 38	16 6	1 48	17 38	15 31	20 9	19 53	18 8	1 22	4 13
S 29	23 15	21 1	2 26	20 31	2 56	19 59	1 47	20 17	0 11	10 54	1 12	18 51	1 50	7 4	0 38	16 6	1 47	17 39	15 31	20 9	19 53	18 9	1 21	4 13
M30	23 12	21 11	1 8	20 23	3 5	19 40	1 47	20 26	0 10	10 57	1 12	18 52	1 50	7 5	0 38	16 6	1 47	17 39	15 32	20 10	19 54	18 10	1 21	4 13
T 31	23s 8	19s52	0s13	20s18	3n11	19s19	1s47	20s35	0n 9	11s 0	1n13	18s53	1n50	7s 5	0n38	16n 6	1s47	17n40	15n32	20n10	19n55	18n12	1s20	4n12

Julian Day Number = 2349611.5, Delta T = 10.47 sec
Ecliptic obliquity = 23°28'27, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°50'39, Lahiri = 19°57'40Greg. Calendar